



## REVISED AGENDA

### CAPITOLA PLANNING COMMISSION

**Thursday, August 4, 2016 – 7:00 PM**

Chairperson      T.J. Welch  
Commissioners    Ed Newman  
                         Gayle Ortiz  
                         Linda Smith  
                         Susan Westman

#### 1. ROLL CALL AND PLEDGE OF ALLEGIANCE

#### 2. ORAL COMMUNICATIONS

##### A. Additions and Deletions to Agenda

##### B. Public Comments

*Short communications from the public concerning matters not on the Agenda. All speakers are requested to print their name on the sign-in sheet located at the podium so that their name may be accurately recorded in the Minutes.*

##### C. Commission Comments

##### D. Staff Comments

#### 3. CONSENT CALENDAR

*All matters listed under "Consent Calendar" are considered by the Planning Commission to be routine and will be enacted by one motion in the form listed below. There will be no separate discussion on these items prior to the time the Planning Commission votes on the action unless members of the public or the Planning Commission request specific items to be discussed for separate review. Items pulled for separate discussion will be considered in the order listed on the Agenda.*

##### A. 211 Esplanade #16-122      035-211-03

Design Permit application to re-face the top of building fascia and a Sign Permit application for a wall sign at 211 Esplanade (The Sand Bar), located in the CV (Central Village) Zoning District.

This project is in the Coastal Zone but is exempt from a Coastal Development Permit.

Environmental Determination: Categorical Exemption

Property Owner: Chuck Hammers

Representative: Shawn Adams – Monterey Signs, filed: 6/14/16

#### 4. PUBLIC HEARINGS

*Public Hearings are intended to provide an opportunity for public discussion of each item listed as a Public Hearing. The following procedure is as follows: 1) Staff Presentation; 2) Public Discussion; 3) Planning Commission Comments; 4) Close public portion of the Hearing; 5) Planning Commission Discussion; and 6) Decision.*

**A. 190 El Camino Medio #16-107 035-262-01**

Conditional Use Permit application to conduct an owner-occupied Bed and Breakfast at the existing residence and variance request to parking standards, located in the AR/R-1 (Automatic Review / Single-Family Residential) Zoning District.

This project is in the Coastal Zone and requires a Coastal Development Permit, which is appealable to the California Coastal Commission after all possible appeals are exhausted through the city.

Environmental Determination: Statutory Exemption

Property Owner: Gordon Hunt

Representative: Kathleen Notch, filed: 5/24/16

**B. Verizon Wireless Communication Facility at 4400 Capitola Road #15-156 034-111-53**

Design Permit and Conditional Use Permit for the installation of a new Verizon wireless antenna and ancillary equipment on the roof of an existing commercial building in the PO (Professional Office) Zoning District.

This project is in the Coastal Zone and requires a Coastal Development Permit, which is not appealable to the California Coastal Commission.

Environmental Determination: Categorical Exemption

Property Owner: Lomak Property Group

Representative: Verizon Wireless – Nexius, filed 9/29/15

**C. 419 Capitola Avenue #16-101 APN: 035-131-26**

Design Permit and Variance for front and side yard setbacks for a three story duplex located in the CN (Neighborhood Commercial) Zoning District.

This project is in the Coastal Zone and requires a Coastal Development Permit that is appealable to the California Coastal Commission after all possible appeals are exhausted through the city.

Environmental Determination: Categorical Exemption

Property Owners: Daniel Gomez and Daniel Townsend, filed 5/16/2016

Representative: Daniel Gomez and Daniel Townsend

**D. 2205 Wharf Road #16-041 APN: 034-141-34**

Minor land division to create two lots of record, design permit for a new Single-Family Residence, and a tree removal permit for the property located at 2205 Wharf Road in the RM-LM (Residential Multi-Family – Low-Medium Density) Zoning District.

This project is not in the Coastal Zone and does not require a Coastal Development Permit.

Environmental Determination: Categorical Exemption

Property Owner: Christopher Wright

Representative: Dennis Norton, filed: 3/14/16

**5. DIRECTOR'S REPORT****6. COMMISSION COMMUNICATIONS****7. ADJOURNMENT**



**APPEALS:** The following decisions of the Planning Commission can be appealed to the City Council within the (10) calendar days following the date of the Commission action: Conditional Use Permit, Variance, and Coastal Permit. The decision of the Planning Commission pertaining to an Architectural and Site Review can be appealed to the City Council within the (10) working days following the date of the Commission action. If the tenth day falls on a weekend or holiday, the appeal period is extended to the next business day.

All appeals must be in writing, setting forth the nature of the action and the basis upon which the action is considered to be in error, and addressed to the City Council in care of the City Clerk. An appeal must be accompanied by a one hundred forty two dollar (\$142.00) filing fee, unless the item involves a Coastal Permit that is appealable to the Coastal Commission, in which case there is no fee. If you challenge a decision of the Planning Commission in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this agenda, or in written correspondence delivered to the City at, or prior to, the public hearing.

**Notice regarding Planning Commission meetings:** The Planning Commission meets regularly on the 1<sup>st</sup> Thursday of each month at 7:00 p.m. in the City Hall Council Chambers located at 420 Capitola Avenue, Capitola.

**Agenda and Agenda Packet Materials:** The Planning Commission Agenda and complete Agenda Packet are available on the Internet at the City's website: [www.cityofcapitola.org](http://www.cityofcapitola.org). Agendas are also available at the Capitola Branch Library, 2005 Wharf Road, Capitola, on the Monday prior to the Thursday meeting. Need more information? Contact the Community Development Department at (831) 475-7300.

**Agenda Materials Distributed after Distribution of the Agenda Packet:** Materials that are a public record under Government Code § 54957.5(A) and that relate to an agenda item of a regular meeting of the Planning Commission that are distributed to a majority of all the members of the Planning Commission more than 72 hours prior to that meeting shall be available for public inspection at City Hall located at 420 Capitola Avenue, Capitola, during normal business hours.

**Americans with Disabilities Act:** Disability-related aids or services are available to enable persons with a disability to participate in this meeting consistent with the Federal Americans with Disabilities Act of 1990. Assisted listening devices are available for individuals with hearing impairments at the meeting in the City Council Chambers. Should you require special accommodations to participate in the meeting due to a disability, please contact the Community Development Department at least 24 hours in advance of the meeting at (831) 475-7300. In an effort to accommodate individuals with environmental sensitivities, attendees are requested to refrain from wearing perfumes and other scented products.

**Televised Meetings:** Planning Commission meetings are cablecast "Live" on Charter Communications Cable TV Channel 8 and are recorded to be replayed on the following Monday and Friday at 1:00 p.m. on Charter Channel 71 and Comcast Channel 25. Meetings can also be viewed from the City's website: [www.cityofcapitola.org](http://www.cityofcapitola.org).



## STAFF REPORT

TO: PLANNING COMMISSION

FROM: COMMUNITY DEVELOPMENT

DATE: AUGUST 4, 2016

SUBJECT: **211 Esplanade #16-122 035-211-03**

Design Permit application to re-face the top of building fascia and a Sign Permit application for a wall sign at 211 Esplanade (The Sand Bar), located in the CV (Central Village) Zoning District.

This project is in the Coastal Zone but is exempt from a Coastal Development Permit.

Environmental Determination: Categorical Exemption

Property Owner: Chuck Hammers

Representative: Shawn Adams – Monterey Signs, filed: 6/14/16

### **APPLICANT PROPOSAL**

The applicant is proposing to install a new wall sign for The Sand Bar located at 211 Esplanade, located in the CV (Central Village) zoning district. The new 34 square foot wall sign would include acrylic lettering and an acrylic logo attached to the existing stucco fascia. Behind the new sign, the applicant is proposing to attach custom stained wood backing to the existing stucco fascia.

### **BACKGROUND**

The application was reviewed by the Architectural and Site Review Committee on July 27<sup>th</sup>, 2016. There were no comments generated during the meeting as none of the members had concerns or issues with the proposal.

### **DISCUSSION**

The Sand Bar restaurant and bar is located at 211 Esplanade, centered within the row of restaurants and bars closest to the beach. The entrance to the restaurant is off of Esplanade. The applicant is proposing to reface the top fascia and install a new wall sign above the entrance.

The proposed new wall sign, including both the lettering and logo, would be roughly 34 square feet total. The main lettering, "The Sand Bar", would be 17 inches tall, 113 inches long, and use one-half inch thick blue acrylic. Below the main lettering is a description of the restaurant, "California Bar & Grill", which would be roughly four inches tall and would use one-half inch orange acrylic. To the right of the lettering, the applicant is proposing a guitar and beach themed logo. The logo would be made of one-half inch acrylic and would be 24 inches tall at its highest point and 82 inches long.

The applicant is proposing to reface the existing fascia with stained wood backing. The wood backing would expand the full 38 feet of the building front and would serve as a backdrop to the new sign proposal. In between the acrylic signs and stained wood backing is a one and a half inch spacer to give a floating appearance to the sign. In addition, the applicant is proposing to install five “gooseneck” lights above the signage. The lighting would be directed against the new sign and would not shine onto the sidewalk or street. (Attachment 1)

### **ANALYSIS**

The Capitola Municipal Code has specific regulations related to wall signs within the Central Village. Pursuant to chapter 17.57.070-B, “the size of each individual sign shall not be greater than one square foot of sign area for for each one linear foot of business frontage.” The building at 211 Esplanade contains just over 38 feet of linear frontage. The maximum sign that is allowed at this location would be 38 square feet. The proposed lettering and logo would be roughly 34 square feet combined and thus would comply with the code.

The code also requires that no portion of the sign may project more than twelve inches from the building face (17.57.070-B-3). The proposed sign projects two inches off the face of the building. In addition, the zoning code (§17.57.060) contains specific regulations for signs within the Central Village, which are also listed within the Central Village Design Guidelines, as follows:

1. Relate all signs to their surroundings in terms of size, shape, color, texture, and lighting so that they are complimentary to the overall design of the building and are not in visual competition with other conforming signs in the area. Signs should be an integral part of the building and site design.

Staff analysis: The proposed new wall signs and wood backing would relate well to the overall building and surrounding structures. The proposed new sign would not be in visual competitions with nearby signs as it will be similarly sized. In addition, the “gooseneck” lighting would project 29 inches and be similar in design to adjacent businesses’ sign lighting. The proposed wood backing would be a complimentary upgrade to the existing fascia.

2. Arrange any external spot or flood sign lighting so that the light source is screened from direct view, and so that the light is directed against the sign and does not shine into adjacent property or distract motorists or pedestrians.

Staff analysis: The proposed “gooseneck” lighting would be directed against the new wall sign. The existing building contains a three foot overhang located below the new signage which will help contain any excess light. Condition of Approval #3 has been included to ensure that this requirement is met.

3. Sign programs will be developed for buildings which house more than one business. Signs need not match but should be compatible for the building and each other.

Staff analysis: The existing building at 211 Esplanade does not house more than one business, therefore this section does not apply.

4. One menu box with a maximum of 2 square feet shall be allowed for each restaurant. The board design and materials shall be consistent with the materials and design of the building face.

Staff analysis: A menu box is not a part of this application.

5. If banners and flags are placed on a building they must be included and reviewed as part of the sign program.

Staff analysis: No banners or flags are proposed on the building.

The proposed wall sign and stained wood backing conform to the requirements of the Capitola Municipal Code. The exterior modifications would be complimentary to the overall design of the existing building and adjacent business along Esplanade.

**CEQA**

Section 15301 of the CEQA Guidelines exempts minor exterior modifications to existing structures. This project involves one new wall sign and new exterior materials on to an existing restaurant in the CV (Central Village) Zoning District. No adverse environmental impacts were discovered during review of the proposed project.

**RECOMMENDATION**

Staff recommends that the Planning Commission **approve** the new wood fascia backing and new wall sign for application #16-122, subject to the following conditions and findings:

**CONDITIONS**

1. The project approval consists of a sign permit for a new wall sign and design permit for new wood fascia backing behind the sign, located on the front façade of 211 Esplanade in the CV (Central Village) zoning district. The proposed project is approved as indicated in the conditions of approval reviewed and approved by the Planning Commission on August 4<sup>th</sup>, 2016, except as modified through conditions imposed by the Planning Commission during the hearing.
2. One new wall sign and associated stained wood backing are approved for the property at 211 Esplanade. The approved sign includes lettering and a guitar and beach themed logo, constructed out of one-half inch acrylic. The lettering portion is 26 inches tall and 113 inches long. The logo is 24 inches tall and 82 inches long. The total square footage of the new signage is 34 square feet. The stained wood backing will replace all 38 feet – two inches of the building fascia above the existing overhang, and is located behind the new wall sign.
3. The approval includes five “gooseneck” lights above the signage. The “gooseneck” light source must be screened from direct view, so that the light is directed against the sign and does not shine into adjacent property or distract motorists or pedestrians along Esplanade and adjacent properties.
4. Prior to installation, a building permit shall be secured for the new wall sign and wooden fascia authorized by this permit. Final building plans shall be consistent with the plans approved by the Planning Commission.
5. At time of submittal for building permit review, the Conditions of Approval must be printed in full on the cover sheet of the construction plans.

6. Prior to making any changes to approved plans, modifications must be specifically requested and submitted in writing to the Community Development Department. Any significant changes shall require Planning Commission approval.
7. During construction, any construction activity shall be subject to a construction noise curfew, except when otherwise specified in the building permit issued by the City. Construction noise shall be prohibited between the hours of nine p.m. and seven-thirty a.m. on weekdays. Construction noise shall be prohibited on weekends with the exception of Saturday work between nine a.m. and four p.m. or emergency work approved by the building official. §9.12.010B
8. Prior to issuance of building permit, all Planning fees associated with permit #16-122 shall be paid in full.

### **FINDINGS**

**A. The signage, as designed and conditioned, will maintain the character and aesthetic integrity of the subject property and the surrounding area.**

The wall sign and stained wood backing on the front of the building were designed to maintain the character and aesthetic of the Central Village district.

**B. The signage, as designed and conditioned, reasonably prevent and reduce the sort of visual blight which results when signs are designed without due regard to effect on their surroundings.**

The new wall sign and wood backing on the front of the building complement the building design and the design of neighboring building along the Esplanade.

**C. This project is categorically exempt under Section 15301 of the California Environmental Quality Act and is subject to Section 753.5 of Title 14 of the California Code of Regulations.**

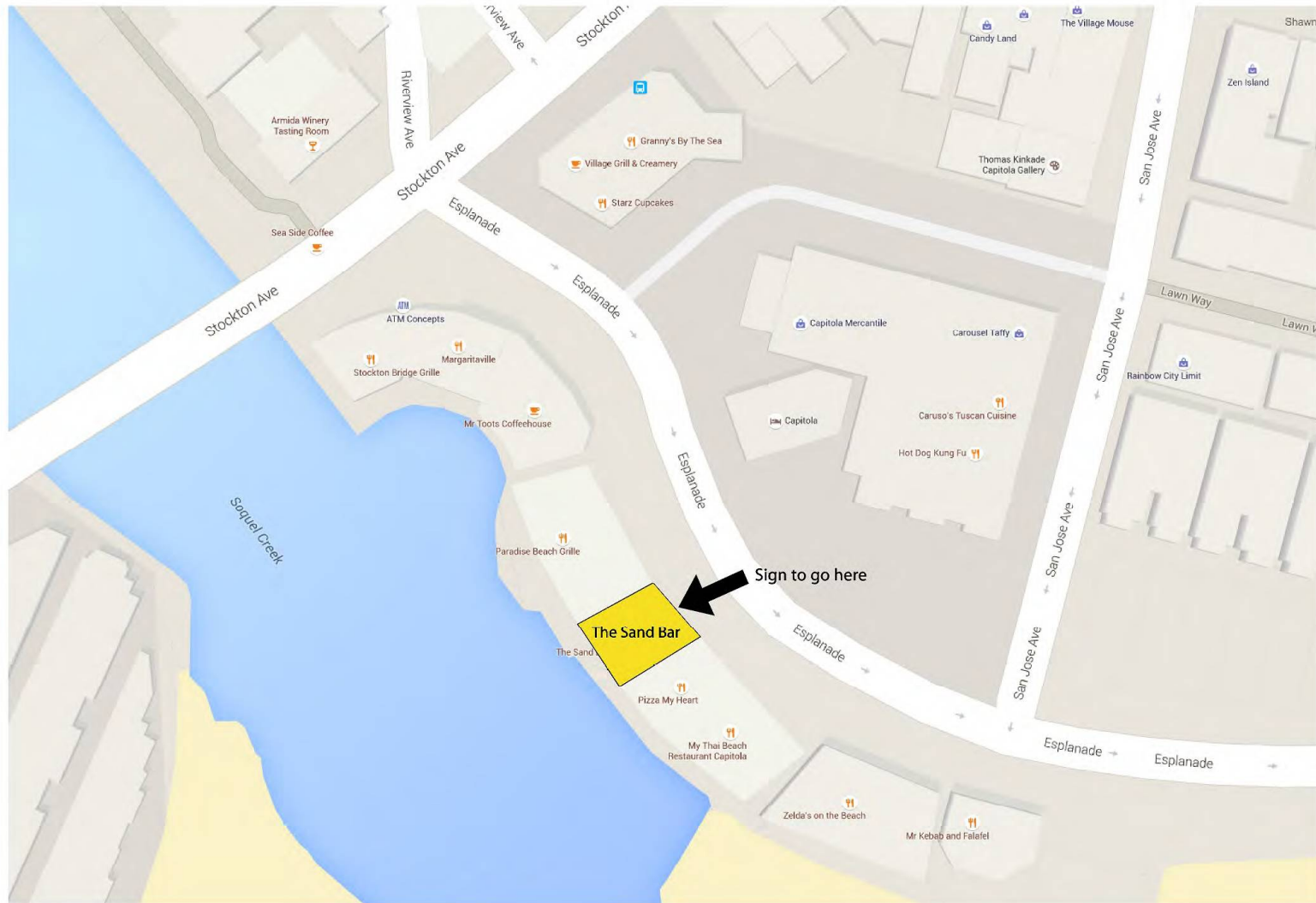
The project involves exterior modifications to an existing restaurant in the CV (Central Village) zoning district. Section 15301 of the CEQA Guidelines exempts minor modifications to existing structures.

### **ATTACHMENTS:**

1. Plan Set

Prepared By: Ryan Safty  
Assistant Planner

# Site map 211 Esplanade, Capitola CA



Attachment: Plan Set (1542 : 211 Esplanade)



**PH: 831.206.8086**  
101 Cooper Street  
Suite 235  
Santa Cruz, CA 95060

**CUSTOMER** The Sand Bar Capitola

**CONTACT** Jeff Lantis

**PHONE** 831-632-0490

**ADDRESS** 211 Esplanade, Capitola, CA 95010

**EMAIL** thesandbarcapitola@yahoo.com

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Attachment: Plan Set (1542 : 211 Esplanade)



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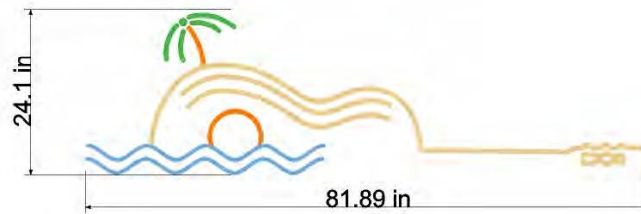
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1/2" thick laser cut acrylic lettering  
with 1.5" spacers to float letters off wall  
Acrylic lettering stud mounted to custom stained wood  
Overall width of sign is 201.9" wide x 26.2" tall (36.73 sq. ft.)



Light blue acrylic  
2648



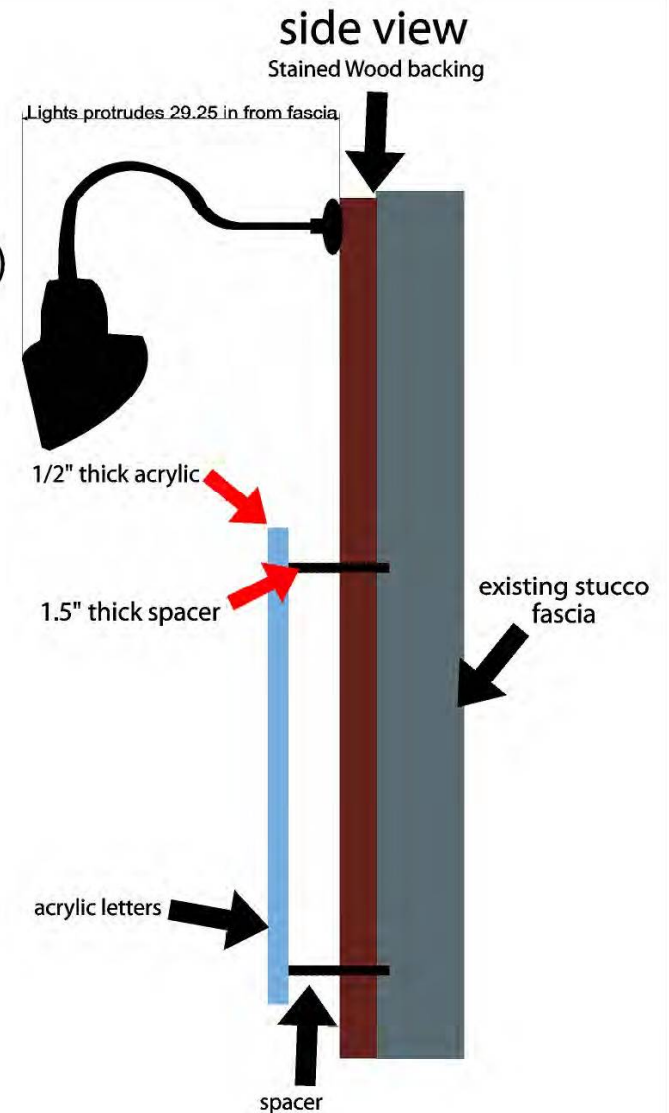
Orange acrylic  
2119



Light Green acrylic  
2108



Desert Sand acrylic  
4660



Attachment: Plan Set (1542 : 211 Esplanade)



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## GNLED13B

13 Watt Angled Cone Shade LED Gooseneck Luminaire designed to match the architecture of Main Street storefronts and building perimeters.

## LED Info

Watts: 13W  
Color Temp: 4000K (Neutral)  
Color Accuracy: 86  
L70 Lifespan: 100000  
LM79 Lumens: 571  
Efficacy: 38 LPW

## Driver Info

Type: Constant Current  
120V: 0.3 A  
208V: 0.3 A  
240V: 0.3 A  
277V: 0.15 A  
Input Watts: 15W  
Efficiency: 86%

## Technical Specifications

## UL Listing:

Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground.

## Lumen Maintenance:

The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

## Fixture:

The GNLED13B comes with the GOOSE1B Arm.

## Mounting:

Heavy-duty mounting arm with "O" ring seal and stainless steel screw.

## Driver:

Single multi-chip, 13W high-output, long-life LED Driver Constant Current.

## Thermal Management:

Custom heat sink assembly in thermal contact with die-cast aluminum housing for superior heat sinking.

## Housing:

Precision die-cast aluminum housing, lens frame and mounting plate.

## Gaskets:

High Temperature Silicone

## Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C

## Shades:

Angled Cone Shade offered.

## Lens:

Glare-reducing frosted glass lens.

Color: Black

Weight: 11.2 lbs



## Finish:

Chip and fade resistant polyester powder coat finish.

## Surge Protection:

4kv

## Color Temperature (Nominal CCT):

4000K

## Fixture Efficacy:

37.8 Lumens per Watt

## Color Accuracy:

86 CRI

## Color Stability:

RAB LED products significantly exceed Energy Star Requirements for Chromatic Stability during LM-80 Testing.

## Color Uniformity:

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2008.

## Green Technology:

RAB LEDs are Mercury and UV free.

## IESNA LM-79 &amp; IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

## Patents:

The design of the Gooseneck is protected by patents pending in US, Canada, China and Taiwan.

## GNLED13B - continued

## Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. See our full warranty

## Country of Origin:

Designed by RAB in New Jersey and assembled in Taiwan.

## Trade Agreements Act Compliant:

This product is a product of Taiwan and a "designated country" end product that complies with the Trade Agreements Act.

## GSA Schedule:

Suitable in accordance with FAR Subpart 25.4

**RAB**  
LIGHTING

Tech Help Line: 888 RAB-1000  
Copyright ©2013 RAB Lighting, Inc. All Rights Reserved

Email: sales@rabweb.com

On the web at: www.rabweb.com

Note: Specifications are subject to change without notice

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**RAB**  
LIGHTING

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## STAFF REPORT

TO: PLANNING COMMISSION

FROM: COMMUNITY DEVELOPMENT

DATE: AUGUST 4, 2016

SUBJECT: **190 El Camino Medio #16-107 035-262-01**

Conditional Use Permit application to conduct an owner-occupied Bed and Breakfast at the existing residence and variance request to parking standards, located in the AR/R-1 (Automatic Review / Single-Family Residential) Zoning District.

This project is in the Coastal Zone and requires a Coastal Development Permit, which is appealable to the California Coastal Commission after all possible appeals are exhausted through the city.

Environmental Determination: Statutory Exemption

Property Owner: Gordon Hunt

Representative: Kathleen Notch, filed: 5/24/16

### **APPLICANT PROPOSAL**

The application is for a Conditional Use Permit to operate a bed and breakfast use out of an existing three-story single-family residence. The owner would be on-site during any guest visits. The existing home does not meet current parking standards or the increased parking requirements for the proposed bed and breakfast use; therefore, the applicant is also requesting a variance from parking standards.

### **BACKGROUND**

As part of a city-wide code enforcement sweep of unpermitted vacation rentals, staff notified the owner of 190 El Camino Medio on February 22nd, 2016 that the home was operating as a transient rental use without a permit. The zoning code only allows transient rentals within the Transient Rental Overlay zone, which consists of the Central Village and the southern portion of Riverview Avenue. The home at 190 El Camino Medio is located just outside of the Transient Rental Overlay zone, and thus is not allowed to be used as a transient rental use.

In response to the code enforcement letter, the property owner applied for a Conditional Use Permit on May 24th, 2016 to operate the existing single-family residence as a bed and breakfast. Staff was concerned with the location of the existing uncovered parking in relation to the property lines and required a survey to be conducted. Staff issued an incomplete letter on June 20th, 2016, explaining that a survey of the existing building footprint and property lines was required in order to continue processing the application. A survey was submitted and the application was deemed complete on July 5th, 2016.

## **DISCUSSION**

The existing three-story residence is located in the Automatic Review Overlay zone and Single-Family Residential (AR/R-1) zoning districts. Neighboring properties to the west are zoned CV (Central Village) and are located within the allowed Transient Rental Overlay (TRO) zone (Attachment 1). The TRO zoned properties can obtain an administrative Transient Rental Use Permit and business license to operate their residence as a “vacation rental” as long as they show proof of one parking space, either on-site or through a Pacific Cove parking pass. The property at 190 El Camino, however, has no option for a Transient Rental Use Permit without an expansion of the TRO overlay district through amendments to the zoning code and Local Coastal Program. The applicant is therefore applying for a use permit to operate a bed and breakfast.

A bed and breakfast is allowed in the R-1 zone with a Conditional Use Permit approved by the Planning Commission. A bed and breakfast is defined as a home occupation in which the occupant is the only employee, where guests rent rooms for sleeping purposes for transient (less than 30 days) occupancy, where no more than four persons can stay at any time regardless of the number of rooms, and where one parking space is required for each room available in addition to the current parking standards being met on-site (§17.03.085).

### **Parking**

The existing home is approximately 2,500 square feet. According to the municipal code, parking requirements for bed and breakfast use permits are, “one space for each bedroom rented, in addition to the spaces required for the single family residence, each regular space must be a minimum of nine feet by eighteen feet. Fifty percent of the spaces may be compact spaces of eight feet by sixteen feet” (§17.51.130.E)

In accordance with current parking standards, the existing residence is required to have three parking spaces, one of which must be covered. The survey of 190 El Camino Medio shows that the property contains two covered garage spaces, but the three uncovered spaces shown in front of the home are not located within property lines. Parking spaces for R-1 zoned properties must be located entirely on-site and may not be located in any public or private right-of-way (§17.15.130.F) There is approximately seven feet between the front of the home and the front property line. The existing uncovered parking area extends approximately 14 feet into the El Camino Medio public right-of-way (Attachment 1).

The applicant is proposing to provide four on-site parking spaces by placing two spots in tandem behind the existing garage spots. There is 32 feet from the back wall of the garage to the front property line. The applicant would like to place tandem parking behind both of the garage spaces. In order to do this, the two uncovered spaces would be partially located within the garage and partially outside. The garage doors would not be functional when all four spaces are being used.

The Municipal Code allows tandem parking in front of a garage within the R-1 zone (§17.15.130.H). The uncovered spaces can be considered compact and must be eight feet wide by 16 feet long, while the covered spaces must be ten feet by 20 feet. A minimum of 36 feet are required for the length of the set of two tandem spaces and the subject property only contains 32 feet at the furthest point. Therefore, the applicant is requesting a variance to the parking size requirements.

### Variance

The applicant is requesting a variance to reduce parking size requirements for a bed and breakfast use in the R-1 zone. The applicant is proposing four, eight feet wide by 15 feet long parking spaces when the code requires covered spaces to be ten feet by 20 feet and requires (compact) uncovered spaces to be eight feet by 16 feet. Pursuant to §17.66.090, the Planning Commission may grant a variance permit when it finds:

1. There are special circumstances applicable to subject property, including size, shape, topography, location or surroundings, the strict application of this title is found to deprive subject property of privileges enjoyed by other properties in the vicinity and under identical zone classification.
2. That the grant of a variance permit would not constitute a grant of special privilege inconsistent with the limitation upon other properties in the vicinity and zone in which subject property is situated.

The subject property is located on a steep sloping lot directly adjacent to the CV and TRO zoning districts. The existing home is built into the cliff; therefore, moving the home back to create additional room for parking would be very difficult. Although there are unique circumstances related to the topography of the property, a variance in this case is intended to allow the property owner to intensify their existing single-family use and is not necessary to provide a reasonable property right enjoyed by others in the same zone and vicinity.

In addition, the physical characteristics and condition of El Camino Medio are not favorable to allowing an encroachment permit for off-site parking. El Camino Medio is a narrow street and the portion in front of the subject property allows two-way traffic. A variance would further narrow the roadway and constrict safe passage of vehicles and pedestrians. In addition, the area in front of the subject property is adjacent to pedestrian stairs leading from the village to Depot Hill, and the City may want to add sidewalks connecting the stairway to Monterey Avenue in the future.

Finally, allowing a parking variance to accommodate a bed and breakfast use in residential areas of the village could encourage other property owners to seek parking waivers and exceptions to operate bed and breakfasts or other transient rental uses, further exacerbating village parking issues.

For the reasons stated above, staff recommends denial of the variance request. If the Planning Commission wishes to allow more bed and breakfast establishments or transient rentals in the village, staff would recommend the Commission consider amending current restrictions on such uses in conjunction with the zoning code update.

### CEQA

The project is statutorily exempt pursuant to CEQA Section 15270 (Projects which are Disapproved).

### RECOMMENDATION

Staff recommends that the Planning Commission **deny** the variance request to reduce parking size dimensions and thus deny application #16-107 based on the following Conditions and Findings for Approval.



## **FINDINGS**

- A. **The application, subject to the conditions imposed, does not secure the purposes of the Zoning Ordinance, General Plan, and Local Coastal Plan.**  
Community Development Department Staff and the Planning Commission have reviewed the project. The application does not secure the purposes of the Zoning Ordinance and General Plan because the project would not provide required on-site parking in an already parking deficient area.
- B. **The application will not maintain the character and integrity of the neighborhood.**  
Community Development Staff and the Planning Commission have reviewed the project. The project will not maintain the character and integrity of the neighborhood because the project would not meet on-site parking requirements in an already parking deficient area.
- C. **This project is statutorily exempt under Section 15270 of the California Environmental Quality Act and is not subject to Section 753.5 of Title 14 of the California Code of Regulations.**  
Section 15270 of the CEQA Guidelines statutorily exempts projects which are disapproved.
- D. **Special circumstances applicable to the subject property, including size, shape, topography, location or surroundings, exist on the site but the strict application of this title is not found to deprive subject property of privileges enjoyed by other properties in the vicinity and under identical zone classification;**  
The strict application of the code does not deprive the property of privileges enjoyed by other properties under identical zoning. The property currently supports a single-family residence similar to others in the vicinity. All of the properties on El Camino Medio are zoned AR/R-1 (Automatic Review / Single-Family Residential) and none enjoy the privilege of operating a bed and breakfast use with deficient on-site parking.
- E. **The grant of a variance would constitute a grant of a special privilege inconsistent with the limitation upon other properties in the vicinity and zone in which subject property is situated.**  
A variance to parking standards would constitute the grant of a special privilege because no other properties in the same zone and vicinity currently enjoy use of a bed and breakfast with deficient on-site parking.

## **COASTAL FINDINGS**

***D. Findings Required. A coastal permit shall be granted only upon adoption of specific written factual findings supporting the conclusion that the proposed development conforms to the certified Local Coastal Program, including, but not limited to:***

- The proposed development does not conform to the City's certified Local Coastal Plan (LCP). The specific, factual findings, as per CMC Section 17.46.090 (D) are as follows:

***(D) (2) Require Project-Specific Findings. In determining any requirement for public access, including the type of access and character of use, the city shall evaluate and document in written findings the factors identified in subsections (D) (2) (a) through (e), to the extent applicable. The findings shall explain the basis for***

*the conclusions and decisions of the city and shall be supported by substantial evidence in the record. If an access dedication is required as a condition of approval, the findings shall explain how the adverse effects which have been identified will be alleviated or mitigated by the dedication. As used in this section, "cumulative effect" means the effect of the individual project in combination with the effects of past projects, other current projects, and probable future projects, including development allowed under applicable planning and zoning.*

*(D) (2) (a) Project Effects on Demand for Access and Recreation. Identification of existing and open public access and coastal recreation areas and facilities in the regional and local vicinity of the development. Analysis of the project's effects upon existing public access and recreation opportunities. Analysis of the project's cumulative effects upon the use and capacity of the identified access and recreation opportunities, including public tidelands and beach resources, and upon the capacity of major coastal roads from subdivision, intensification or cumulative build-out. Projection for the anticipated demand and need for increased coastal access and recreation opportunities for the public. Analysis of the contribution of the project's cumulative effects to any such projected increase. Description of the physical characteristics of the site and its proximity to the sea, tideland viewing points, upland recreation areas, and trail linkages to tidelands or recreation areas. Analysis of the importance and potential of the site, because of its location or other characteristics, for creating, preserving or enhancing public access to tidelands or public recreation opportunities;*

- The proposed project is located at 190 El Camino Medio. The home is located in an area with coastal access. The applicant's propose to use public right-of-way to meet on-site parking demands which could preclude a future sidewalk to connect to the pedestrian stairs leading to Depot Hill.

*(D) (2) (b) Shoreline Processes. Description of the existing shoreline conditions, including beach profile, accessibility and usability of the beach, history of erosion or accretion, character and sources of sand, wave and sand movement, presence of shoreline protective structures, location of the line of mean high tide during the season when the beach is at its narrowest (generally during the late winter) and the proximity of that line to existing structures, and any other factors which substantially characterize or affect the shoreline processes at the site. Identification of anticipated changes to shoreline processes at the site. Identification of anticipated changes to shoreline processes and beach profile unrelated to the proposed development. Description and analysis of any reasonably likely changes, attributable to the primary and cumulative effects of the project, to: wave and sand movement affecting beaches in the vicinity of the project; the profile of the beach; the character, extent, accessibility and usability of the beach; and any other factors which characterize or affect beaches in the vicinity. Analysis of the effect of any identified changes of the project, alone or in combination with other anticipated changes, will have upon the ability of the public to use public tidelands and shoreline recreation areas;*

- The proposed project is located along El Camino Medio. No portion of the project is located along the shoreline or beach, but the project is near the beach.

*(D) (2) (c) Historic Public Use. Evidence of use of the site by members of the general public for a continuous five-year period (such use may be seasonal). Evidence of the type and character of use made by the public (vertical, lateral, blufftop, etc., and for passive and/or active recreational use, etc.). Identification of any agency (or person) who has maintained and/or improved the area subject to*

**historic public use and the nature of the maintenance performed and improvements made. Identification of the record owner of the area historically used by the public and any attempts by the owner to prohibit public use of the area, including the success or failure of those attempts. Description of the potential for adverse impact on public use of the area from the proposed development (including but not limited to, creation of physical or psychological impediments to public use);**

- There is not history of public use on the subject lot. However, there is history of public use on the adjacent stairwell to the north.

**(D) (2) (d) Physical Obstructions. Description of any physical aspects of the development which block or impede the ability of the public to get to or along the tidelands, public recreation areas, or other public coastal resources or to see the shoreline;**

- The proposed project is located at 190 El Camino Medio. The home is located in an area with coastal access. The applicant's propose to use public right-of-way to meet on-site parking demands which could preclude a future sidewalk to connect to the pedestrian stairs leading to Depot Hill.

**(D) (2) (e) Other Adverse Impacts on Access and Recreation. Description of the development's physical proximity and relationship to the shoreline and any public recreation area. Analysis of the extent of which buildings, walls, signs, streets or other aspects of the development, individually or cumulatively, are likely to diminish the public's use of tidelands or lands committed to public recreation. Description of any alteration of the aesthetic, visual or recreational value of public use areas, and of any diminution of the quality or amount of recreational use of public lands which may be attributable to the individual or cumulative effects of the development.**

- The proposed project is located on private property but could impact access and recreation of the public stairwell. The project does not diminish the public's use of tidelands or lands committed to public recreation nor alter the aesthetic, visual or recreational value of public use areas.

**(D) (3) (a – c) Required Findings for Public Access Exceptions. Any determination that one of the exceptions of subsection (F) (2) applies to a development shall be supported by written findings of fact, analysis and conclusions which address all of the following:**

**a. The type of access potentially applicable to the site involved (vertical, lateral, bluff top, etc.) and its location in relation to the fragile coastal resource to be protected, the agricultural use, the public safety concern, or the military facility which is the basis for the exception, as applicable;**

**b. Unavailability of any mitigating measures to manage the type, character, intensity, hours, season or location of such use so that agricultural resources, fragile coastal resources, public safety, or military security, as applicable, are protected;**

**c. Ability of the public, through another reasonable means, to reach the same area of public tidelands as would be made accessible by an access way on the subject land.**

- The project is not requesting a Public Access Exception, therefore these findings do not apply.



**(D) (4) (a – f) Findings for Management Plan Conditions. Written findings in support of a condition requiring a management plan for regulating the time and manner or character of public access use must address the following factors, as applicable:**

**a. Identification and protection of specific habitat values including the reasons supporting the conclusions that such values must be protected by limiting the hours, seasons, or character of public use;**

- The project is located on a residential lot.

**b. Topographic constraints of the development site;**

- The project is located on a steep sloping lot.

**c. Recreational needs of the public;**

- The project does not impact recreational needs of the public, but if approved it may affect the City's ability to provide pedestrian walkways from the stairwell to Monterey Avenue.

**d. Rights of privacy of the landowner which could not be mitigated by setting the project back from the access way or otherwise conditioning the development;**

**e. The requirements of the possible accepting agency, if an offer of dedication is the mechanism for securing public access;**

**f. Feasibility of adequate setbacks, fencing, landscaping, and other methods as part of a management plan to regulate public use.**

**(D) (5) Project complies with public access requirements, including submittal of appropriate legal documents to ensure the right of public access whenever, and as, required by the certified land use plan and Section 17.46.010 (coastal access requirements);**

- No legal documents to ensure public access rights are required for the proposed project due to it being denied.

**(D) (6) Project complies with visitor-serving and recreational use policies;**

**SEC. 30222**

***The use of private lands suitable for visitor-serving commercial recreational facilities designed to enhance public opportunities for coastal recreation shall have priority over private residential, general industrial, or general commercial development, but not over agriculture or coastal-dependent industry.***

- The project involves a use change to a single family home on a residential lot of record.

**SEC. 30223**

***Upland areas necessary to support coastal recreational uses shall be reserved for such uses, where feasible.***

- The project involves the use of a single family home on a residential lot of record.

**c) Visitor-serving facilities that cannot be feasibly located in existing developed areas shall be located in existing isolated developments or at selected points of attraction for visitors.**

- The project involves the use of a single family home on a residential lot of record.

**(D) (7) Project complies with applicable standards and requirements for provision of public and private parking, pedestrian access, alternate means of transportation and/or traffic improvements;**

- The project does not comply with applicable parking standards.

**(D) (8) Review of project design, site plan, signing, lighting, landscaping, etc., by the city's architectural and site review committee, and compliance with adopted design guidelines and standards, and review committee recommendations;**

- The project is requesting a variance from the parking size standards, but meets the other requirements of the code due to their being no addition space proposed.

**(D) (9) Project complies with LCP policies regarding protection of public landmarks, protection or provision of public views; and shall not block or detract from public views to and along Capitola's shoreline;**

- The project will not negatively impact public landmarks and/or public views. The project will not block or detract from public views to and along Capitola's shoreline.

**(D) (10) Demonstrated availability and adequacy of water and sewer services;**

- The project is located on a legal lot of record with available water and sewer services.

**(D) (11) Provisions of minimum water flow rates and fire response times;**

- The project is located within close proximity of the Capitola fire department. Water is available at the location.

**(D) (12) Project complies with water and energy conservation standards;**

- The project is for a use modification to an existing single family home. There are no structural changes proposed.

**(D) (13) Provision of park dedication, school impact, and other fees as may be required;**

- The project was denied, thus this section does not apply.

**(D) (14) Project complies with coastal housing policies, and applicable ordinances including condominium conversion and mobile home ordinances;**

- The project does not involve a condo conversion or mobile homes.

**(D) (15) Project complies with natural resource, habitat, and archaeological protection policies;**

- Conditions of approval can be included to ensure compliance with established policies if approved.

**(D) (16) Project complies with Monarch butterfly habitat protection policies;**

- The project is not located in areas where Monarch Butterflies have been encountered, identified and documented.

**(D) (17) Project provides drainage and erosion and control measures to protect marine, stream, and wetland water quality from urban runoff and erosion;**

- The proposal does not include any physical change to the property or home.

***(D) (18) Geologic/engineering reports have been prepared by qualified professional for projects in seismic areas, geologically unstable areas, or coastal bluffs, and project complies with hazard protection policies including provision of appropriate setbacks and mitigation measures;***

- The proposal does not include any physical change to the property or home.

***(D) (19) All other geological, flood and fire hazards are accounted for and mitigated in the project design;***

- The proposal does not include any physical change to the property or home.

***(D) (20) Project complies with shoreline structure policies;***

- The proposal does not include any physical change to the property or home.

***(D) (21) The uses proposed are consistent with the permitted or conditional uses of the zoning district in which the project is located;***

- This use is a conditional use, but not consistent with the parking requirements of the Single Family zoning district.

***(D) (22) Conformance to requirements of all other city ordinances, zoning requirements, and project review procedures;***

- The project does not conform to zoning and parking requirements.

***(D) (23) Project complies with the Capitola parking permit program as follows:***

- The project site is located within the area of the Capitola parking permit program, but would not meet the parking requirements of the zoning code.

#### **ATTACHMENTS:**

1. Application Packet

Prepared By: Ryan Safty  
Assistant Planner

Gordon Hunt  
190 El Camino Medio  
Capitola CA 95010  
gordonincajitola@yahoo.com

RECEIVED

JUL 19 2016

CITY OF CAPITOLA


July 13, 2016

City of Capitola Planning Department  
Gayle Ortiz, Susan Westman, Ed Newman  
Linda Smith, T.J. Welch

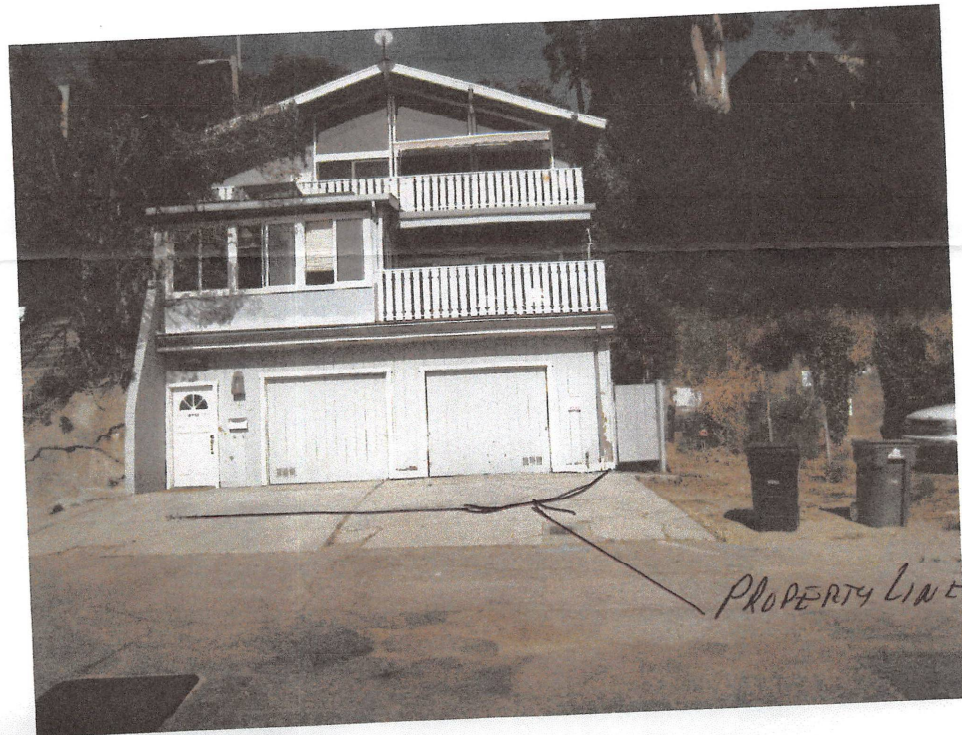
In June I applied for business license for short term rental. After one month I was informed I was one parcel outside of the TRO zone. I applied for a Use Permit for a B&B only to find in the survey my property line divided my parking apron in front of my garages legally not allowing enough parking. The area between my garages and the street according to the survey is considered public access and has been used for 40 years as part of my property for parking.

What I am requesting is a variance allowing parking to comply with B&B requirements. With the use of my parking apron I would have 2 covered spaces and 5 off street spaces.

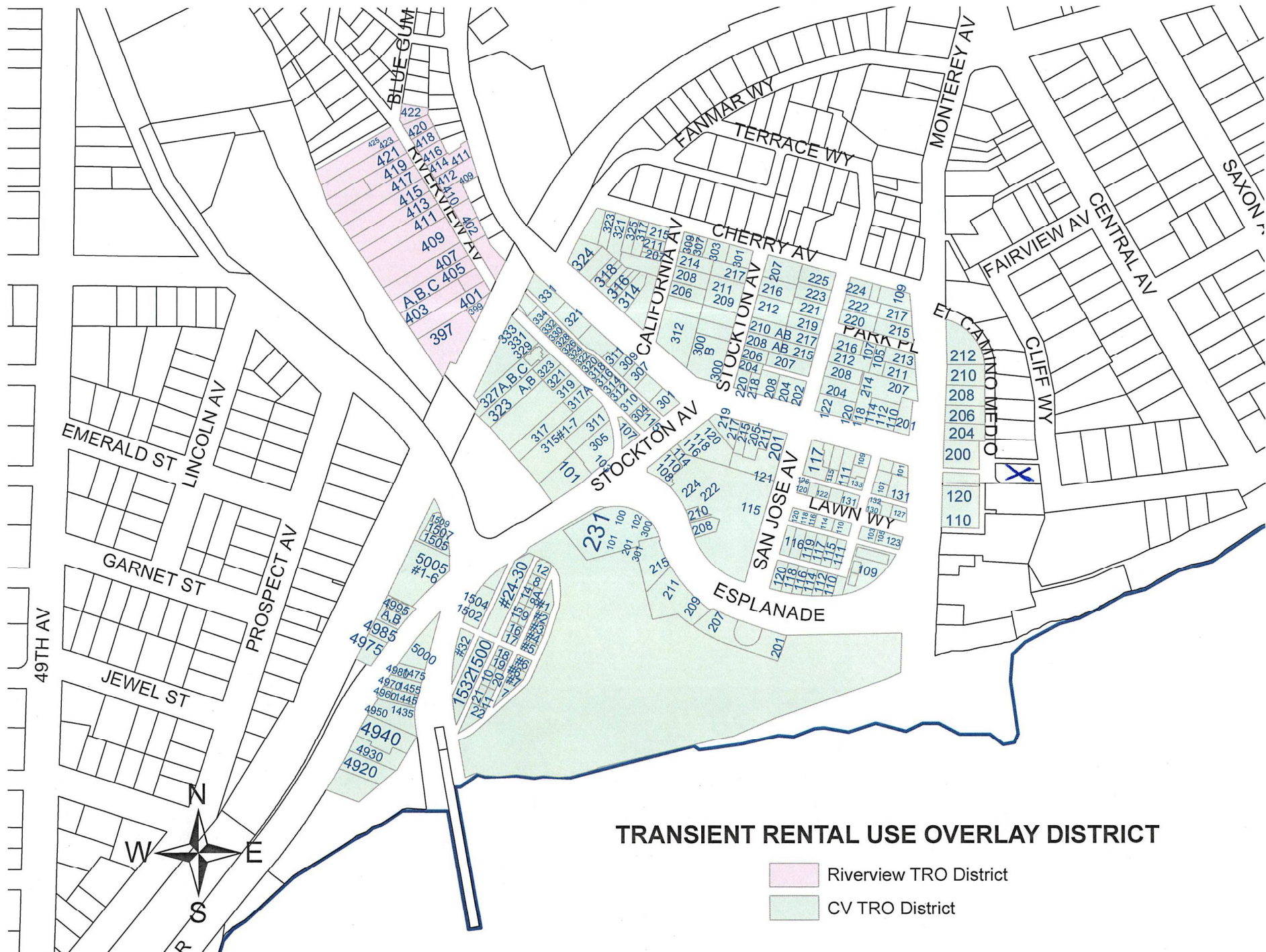
We have been on Airbnb for 3 years and have a 5 star rating with a 100% positive reviews. According to Airbnb we are one of there favorite Capitola beach rentals. We have had guest from 6 countrys many return guest with many reserving a year in advance. I believe we are a great tourist asset to Capitola.



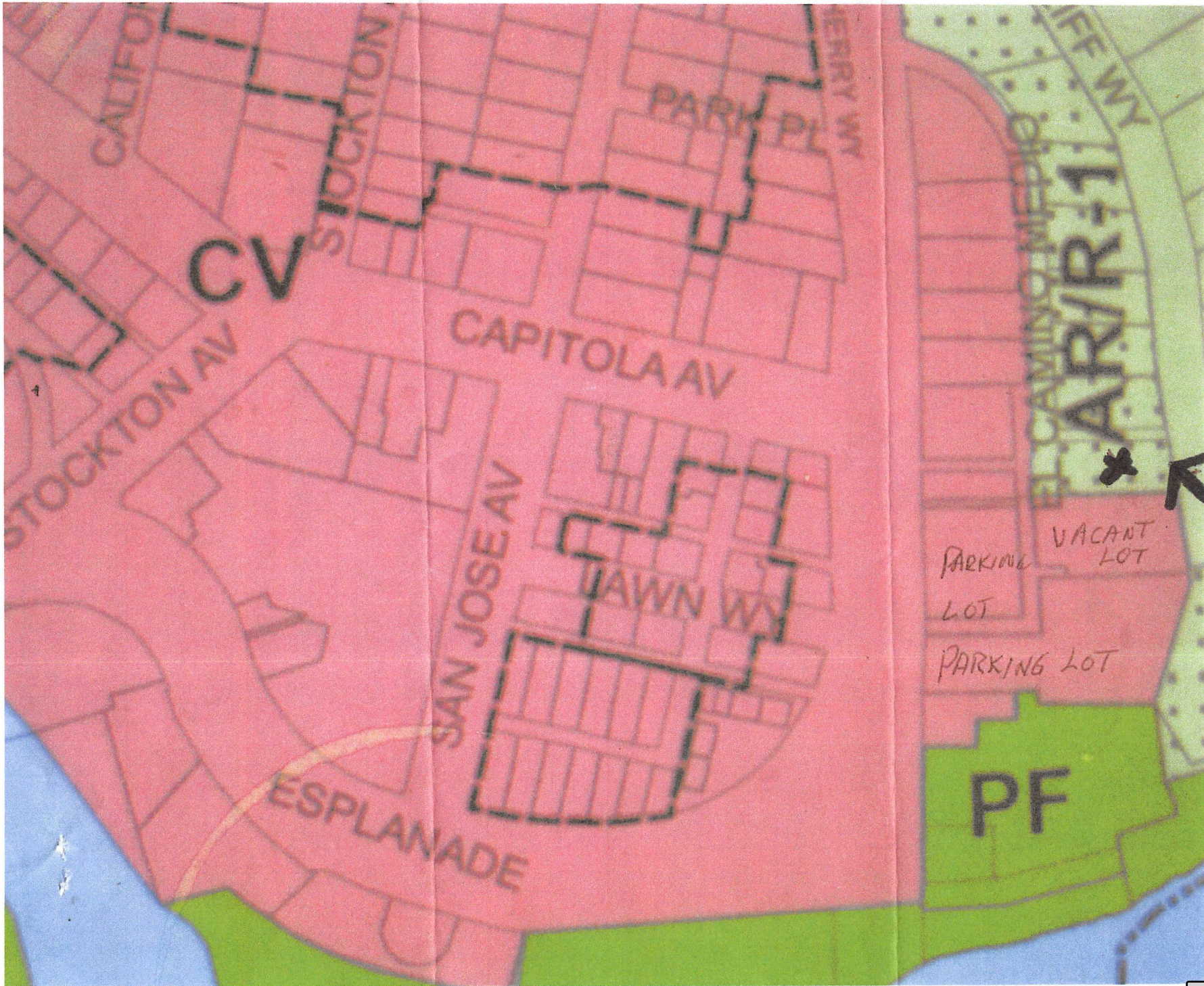
Gordon Hunt









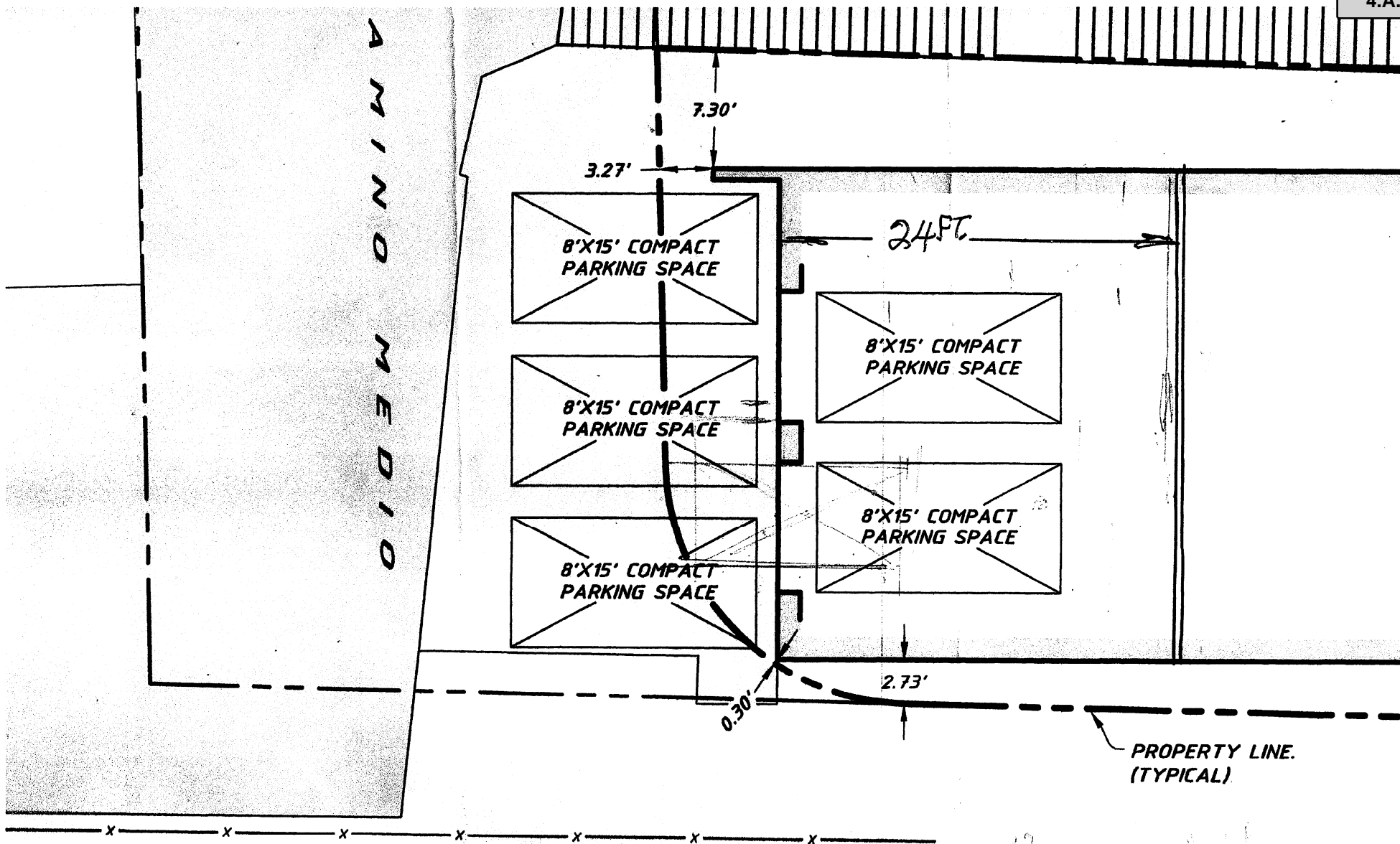


Gordon Hunt

190 El Camino Medio

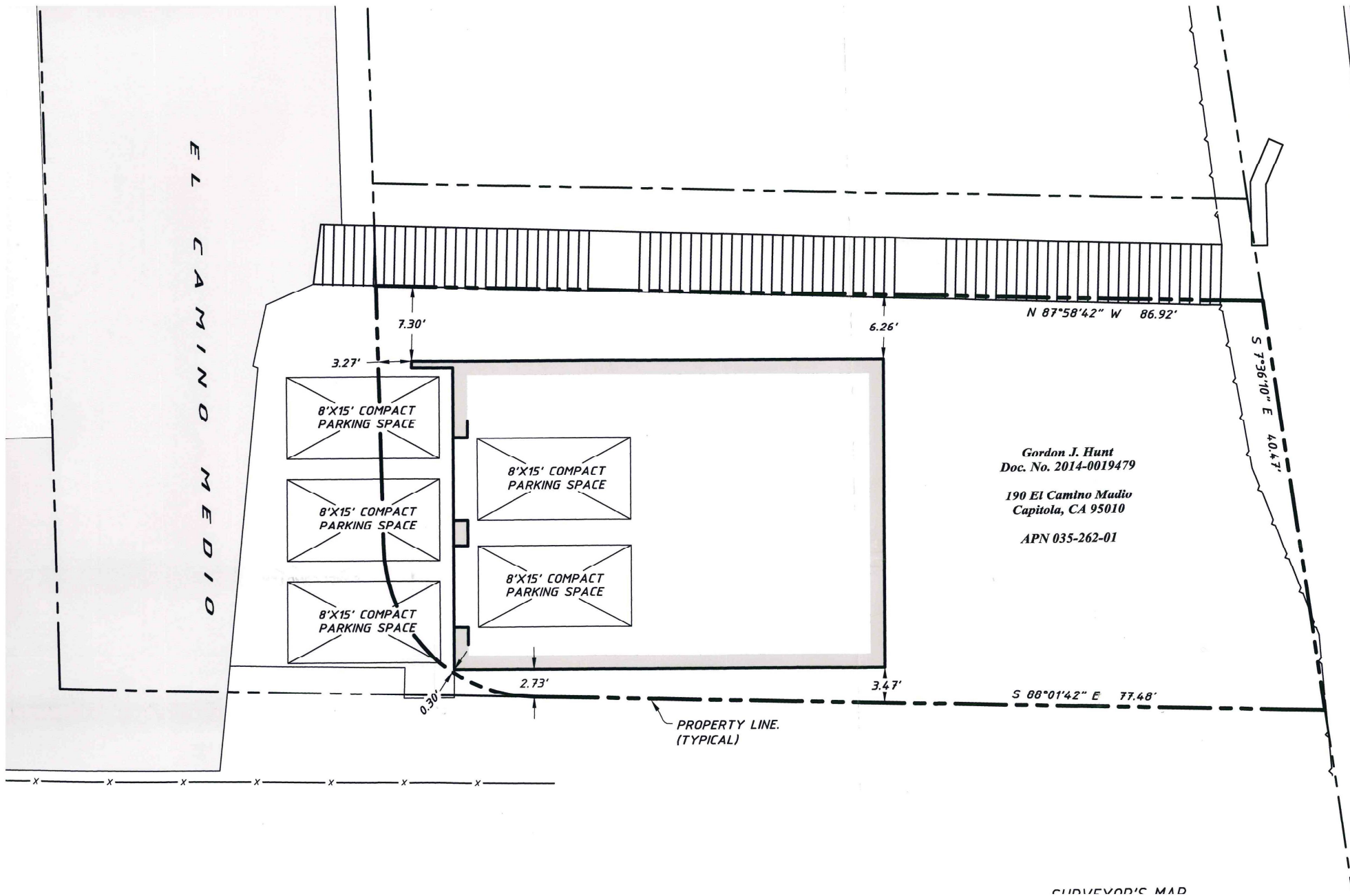
Attachment: Application Packet (1549 : 190 El Camino Medio)





Attachment: Application Packet (1549 : 190 El Camino Medio)





Attachment: Application Packet (1549 : 190 El Camino Medio)

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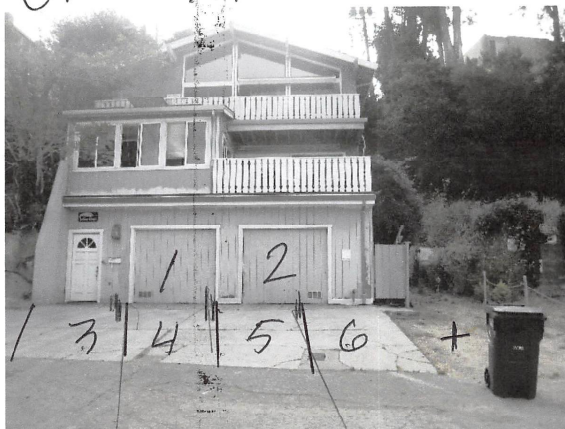
CITY OF CAPITOLA



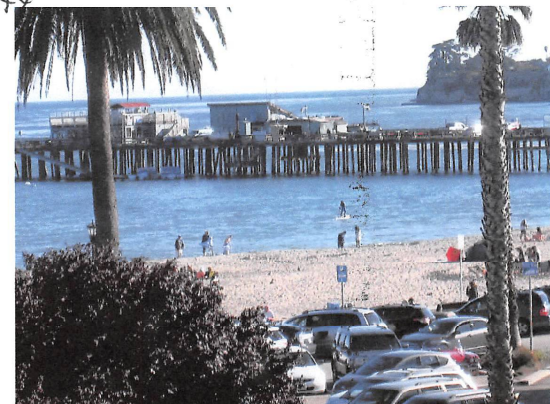
Attachment: Application Packet (1549 : 190 El Camino Medio)



OFF STREET PARKING



2 GARAGE PARKING + 4 DRIVE PAD  
+ GRASS AREA PARTIALLY MY PROPERTY



Planning Dept. City Of Capitola

Gordon Hunt  
190 El Camino Medio  
Capitola Ca 95010  
gordonincapitola@yahoo.com

The Gray Whale Beach House has been on Airbnb for 3 years we have a 5 star rating with a 100% very faverable reviews. We have had guest from 6 different countrys some guest booking a year in advance. We meet all health and safety requirements with 2 garage parking spaces and 4 off street parking spaces.

We are in a R-1 district and requesting a use permit to operate a Bed & Breakfast. The breakfast will be a Continental Breakfast consisting 6 or more of the following items, Coffee, cereal, fresh fruit, bread, pastry, hard boiled egg, fruit juice, cheese, cold cuts, and necessary condiments. With advance notice we will offer any reasonable food request from our guest. Breakfast will be offered to rented guest only.

Attached is a survey as requested

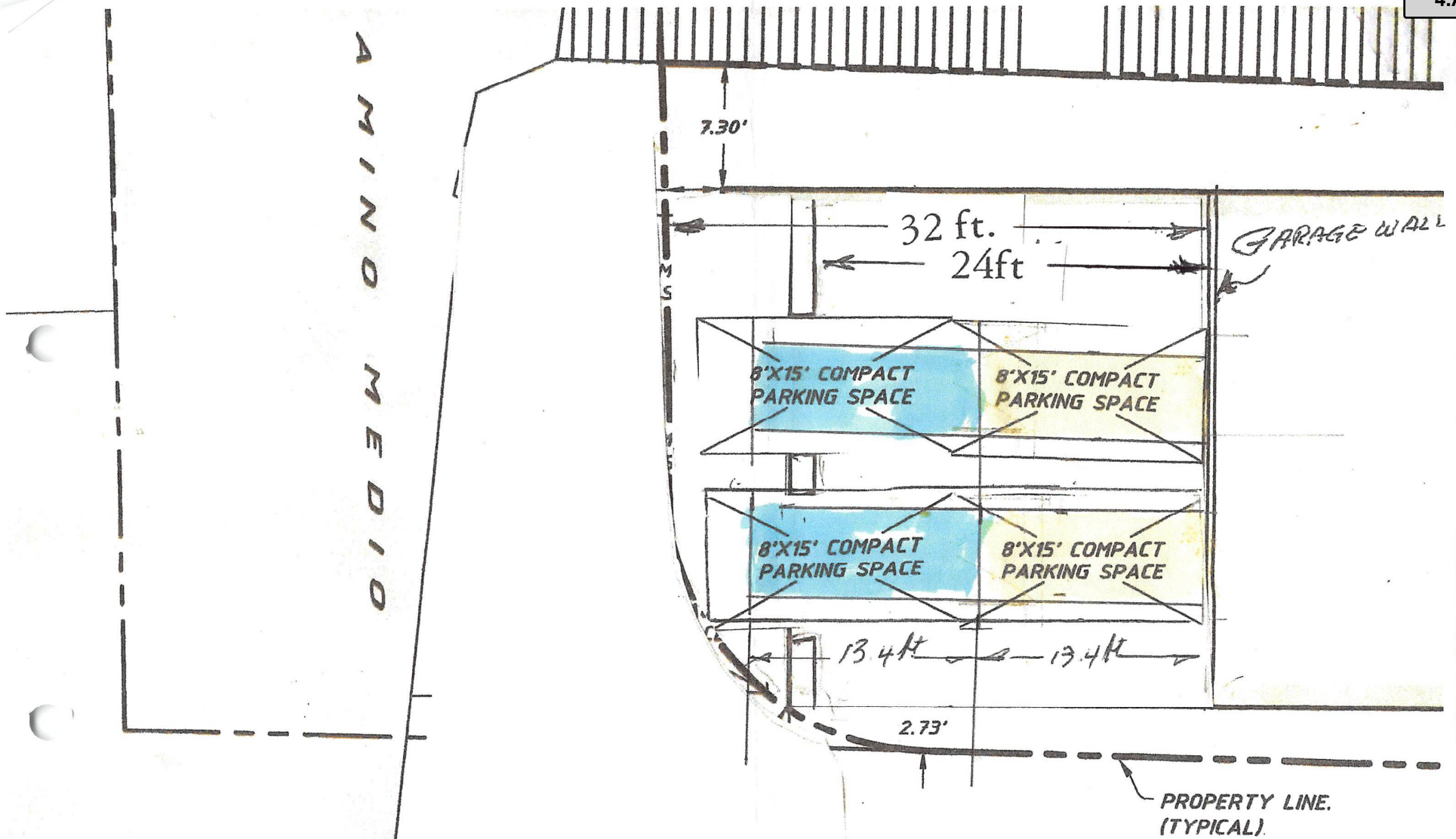


Gordon Hunt  
Homeowner



Kathleen Notch  
Guest host





## Definitions

Current compact car size, as defined by the United States Environmental Protection Agency (EPA), for the US and for international models respectively, is approximately 4,100 mm (161 in) and 4,450 mm (175 in) long for hatchbacks, or 4,400 mm (173 in) and 4,750 mm (187 in) long for convertibles, sedans (saloon) or station wagons (estate car). Multi-purpose vehicles and sport utility vehicles based on small family cars (often called compact MPVs and compact SUVs) have similar sizes, ranging from 4,200 mm (165 in) to 4,500 mm (177 in) in the U.S., and from 4,400 mm (173 in) to 4,700 mm (185 in) in international-based models.



## STAFF REPORT

TO: PLANNING COMMISSION

FROM: COMMUNITY DEVELOPMENT

DATE: AUGUST 4, 2016

SUBJECT: **Verizon Wireless Communication Facility at 4400 Capitola Road** #15-156 034-111-53

Design Permit and Conditional Use Permit for the installation of a new Verizon wireless antenna and ancillary equipment on the roof of an existing commercial building in the PO (Professional Office) Zoning District.

This project is in the Coastal Zone and requires a Coastal Development Permit, which is not appealable to the California Coastal Commission.

Environmental Determination: Categorical Exemption

Property Owner: Lomak Property Group

Representative: Verizon Wireless – Nexius, filed 9/29/15

### **APPLICANT PROPOSAL**

The applicant is proposing to construct two new cylindrical antennas on the roof of the existing office building at 4400 Capitola Road (AAA building). The proposed two foot tall antenna structures will sit roughly two and a half feet above the existing roof line. The proposed antennas will be visible from a public roadway (Capitola Road) and does not meet the location standards established by the Zoning Ordinance.

### **BACKGROUND**

On September 29<sup>th</sup>, 2015, the applicant submitted a proposal for two new antenna facilities located on the roof of an existing professional office building. On October 7<sup>th</sup>, 2015, staff responded with an incomplete letter, stating that additional information and materials were required. On June 20<sup>th</sup>, 2016, the applicant submitted the remaining required information and the application was deemed complete.

### **ARCHITECTURAL AND SITE REVIEW HEARING**

The Architectural and Site Review Committee reviewed the application on July 13<sup>th</sup>, 2016 and provided the applicant with the following direction:

Public Works Director, Steve Jesberg: Steve Jesberg was not present but asked planning staff to verify that all services are currently on-site and will not need to be re-directed from the street. The applicant verified this. Public Works had no other comments.

Building Official, Brian Van Son: Brian Van Son explained that the applicant will need to provide structural engineering to verify that the existing building can support the new facilities at time of building permit submittal. This has been added as Condition of Approval #13.

Local Architect, Frank Phanton: Frank Phanton had no concerns with the proposal.

Landscape Architect, Megan Bishop: Megan Bishop was not present. There is no landscaping proposed to be removed or installed as a part of this application.

City Planner, Ryan Safty: Ryan Safty asked the applicant to submit an electronic copy of the plan set. In addition, Mr. Safty asked that the applicant provide an explanation as to why a larger site in a more suitable zoning district wouldn't suffice to fill the gap in coverage.

Following the Architectural and Site Review hearing, the applicant submitted the electronic copy of the plans and submitted a statement as to why a larger site in a more suitable zoning district would not meet Verizon's coverage and capacity needs.

### **ANALYSIS**

A wireless facility which is not co-locating, is located within the restricted zone setbacks, and does not incorporate stealth technology, requires a conditional use permit with a public hearing before the Planning Commission (§17.98.040). The Capitola Municipal Code restricts wireless antenna facilities from being located within 500 feet of a residential, public facility, commercial residential (CR), transient rental use, or parks and open space zoning district. In addition to the required 500 feet setback to restricted zones, the code also states that "in no event" may a new wireless facility be located within 300 feet of a restricted zoning district.

The proposed new small-cell wireless facility would be located along Capitola Road, in the PO (Professional Office) zoning district. The proposed site would be located within a restricted zone and would not comply with setbacks to restricted zone districts. The proposed wireless facility would be within 300 feet of the restricted land uses including: Multi-Family Residential, Single-Family Residential, and Commercial Residential. (Attachment 2)

The Telecom Act (Federal Telecommunications Act of 1996) states that local governments cannot prohibit personal wireless communication services. Although the Capitola Municipal Code states that in no event may a new facility be located within 300 feet of a restricted zoning district, the FCC's regulations pertaining to wireless telecommunication facilities may preempt the City's ability to deny a permit if the applicant can demonstrate that the City's regulations are tantamount to prohibiting the provision of wireless services. This Federal Act gives wireless applicants the ability to challenge the validity of local regulations if it can prove that the regulations are preventing them from filling a "significant gap" in its coverage. In order to be exempt from the code's setback restrictions, the applicant must be able to prove that the new facility would eliminate or substantially reduce a significant gap in the carrier's network and that there are no alternatives to the location and design of the facility that could reduce said gaps in the "least intrusive means" possible.

The Planning Commission also may not deny an application based on environmental effects of Radio Frequency (RF) emissions. According to Section 332(c) of the Communications Act, "No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions."

### ***Significant Gap Analysis***

Verizon submitted existing and proposed cell coverage maps of Capitola and surrounding areas to illustrate that a gap exists in the current cell coverage. Verizon also included capacity demand graphs to illustrate that the demand of existing antennae facilities within City limits are

approaching capacity limits, and drive tests measuring service levels and data throughput within the area surrounding the proposed facility (Attachment 1).

According to Verizon representatives, the purpose of these small-cell “capacity sites” are to help offload data from nearby cell sites when they have reached their data capacity during busy periods of the day and their existing cell sites are (or will soon become) heavily exhausted with too many connected users and very low data speed. The specific purpose of this site along Capitola Road is to better serve the residences and commercial and government buildings east of the Capitola Mall.

The coverage, capacity, and drive test reports show that there is a lack of cellular coverage and capacity within this area of Capitola. Per the existing and proposed coverage maps, there is a lack of in-building LTE coverage within the area east of the Capitola Mall and the proposed new cell site will fix this gap in coverage. The capacity graphs show that existing capacity of the nearby “Live Oak” (off of Capitola Road, just south of Capitola Mall) facility and “Capitola” (off of Kennedy Drive, within the industrial park) sectors which currently serve the subject area are overloaded and have reached capacity exhaustion. The drive test report conducted from 5:00 to 6:00 pm on March 29, 2016, demonstrates that neighborhoods north, south, and east of the proposed facility are experiencing weak LTE signal, and slow data download speed is seen in all directions surrounding 4400 Capitola Road.

### ***Least Intrusive Means Analysis***

In addition to the applicant proving that a “significant gap” exists, the applicant must also demonstrate that their proposal constitutes the least intrusive means to mitigate a significant gap. The applicant must show that they have made an effort to identify and evaluate less intrusive alternatives that would most closely conform to the values of the local agency. Verizon must therefore demonstrate that they have considered alternative antenna and equipment designs and co-location or less sensitive site locations.

### **Design Review**

The proposed wireless facility would consist of two, two foot tall antennas located on the roof of 4400 Capitola Road. The antennas are proposed on opposite ends of the building rooftop, one in the north-western corner and one in the south-eastern corner. The existing roof is 32 feet tall, and the total height of the antenna addition would be 34 feet – six inches. The antennas would be located within a canister screen to mimic the design of roof top vents. In addition to the antennas, the applicant is proposing to install ancillary equipment on the roof top, consisting of: two remote radio units (RRU), one mounted GPS antenna which will extend roughly one foot above the existing roof line, and power and fiber cables connecting the two antennas to the ancillary equipment. The applicant is proposing to install a six foot – two inch tall equipment cabinet on the ground, below the existing roof line in the south-eastern corner of the building.

The proposed wireless telecommunications facility at 4400 Capitola Road generally conforms to the Capitola Municipal Code design standards (Attachment 2). The proposal complies with the 35 foot height limit for structures in the Professional Office zone. The antennas are designed to mimic the design of a roof-top vent and will be substantially screened from public view due to mature landscaping along the property frontage and because the antenna will be mounted atop a two-story building. Due to the very limited visibility of the facility, staff does not believe additional camouflaging is necessary to conceal the antenna.

The ground-mounted equipment cabinet would be located on the back side of the building, away from view of pedestrians and vehicles traveling along Capitola Road. Although the new facility will be visible, it is a low profile structure which will not be visually intrusive.



### Site Location

Per Verizon's capacity and coverage information, there is a gap in cell coverage east of 41<sup>st</sup> Avenue. In order to obtain an exception to construct the facility in a restricted zone setbacks, Verizon must prove that they have reviewed alternative locations.

Verizon focused their search along the along Capitola Road, between 42<sup>nd</sup> Avenue and 45<sup>th</sup> Avenue. This area is zoned Commercial Neighborhood and Professional Office, with residential uses surrounding it. In order to improve coverage in the target area while still maintaining some degree of setbacks to nearby restricted zoning, the applicant focused their search within the Capitola Road right-of-way and shopping area directly south.

The applicant provided an Alternative Site Analysis for the new antenna facility, which shows that they analyzed multiple utility poles locations and existing retail and office buildings. The proposed site at 4400 Capitola Road was the only site that would allow Verizon to lease space and also meet Verizon's height requirements for the new antennas to effectively reach the surrounding population.

Planning Staff analyzed Verizon's location information and researched alternative sites that could potentially help fill the alleged gap while better meeting the setback restriction. Staff requested that the applicant analyze a few commercial sites to the west, which would better meet restricted zone setback standards and be located in a preferred location preference per section 17.98.090 of the municipal code. Specifically, staff requested that applicant to analyze the Capitola Mall and Bank of America sites and explain why an antenna facility at these locations would not help fill the said coverage gap. Verizon explained that their existing facilities cover the Capitola Mall and Bank of America sites currently, and the purpose of this new small-cell site is to help serve the area east of the Capitola Mall as identified in their existing coverage map. Verizon stated that a small-cell site at this location at 4400 Capitola Road will better distribute cellular traffic to the coverage gap area than a macro (tall building or stand-alone tower) site at the mall or Bank of America to the west.

### CEQA

This project is categorically exempt under Section 15301 of the California Environmental Quality Act. The proposed project involves the construction of a two new, small-cell Verizon wireless antenna facilities on to an existing building roof top. The project will result in a minor addition to the existing building. No adverse environmental impacts were discovered during project review by staff.

### RECOMMENDATION

Staff recommends that the Planning Commission approve application #15-156 based on the following Conditions and Findings for Approval.

### CONDITIONS OF APPROVAL

1. The project approval consists of a new, small-cell wireless antenna facility on to the roof of an existing office building at 4400 Capitola Road. The new antenna facility will consist of two, two foot tall canister antennas located on top of the existing two-story building, extending two feet-six inches over the existing roofline. The equipment cabinet will be located on the ground, behind the south-eastern corner of the building. The remaining ancillary will be located on the roof top. The proposed project is approved as indicated on the final plans reviewed and approved by the Planning Commission on August 4<sup>th</sup>, 2016, except as modified through conditions imposed by the

Planning Commission during the hearing.

2. All Planning fees associated with permit #15-156 shall be paid in full.
3. The applicant was granted a design permit, conditional use permit, and location exemption for the installation of a new, small-cell Verizon wireless antenna facility on the roof of an existing office building at 4400 Capitola Road. In any case where the conditions of the permit are not complied with, the community development director shall give notice thereof to the permittee, which notice shall specify a reasonable period of time within which to perform said conditions and correct said violation. If the permittee fails to comply with said conditions, or to correct said violation, within the time allowed, notice shall be given to the permittee of intention to revoke such permit at a hearing to be held not less than thirty calendar days after the date of such notice. Following such hearing and, if good cause exists therefore, the Planning Commission may revoke the permit.
4. The applicant must maintain a bond or other form of security to the City's satisfaction throughout the life of the project. The bond must be approved by the Community Development Director and be signed by both parties prior to building permit issuance.
5. The wireless communication facilities shall comply with all Federal Communication Commission (FCC) rules, regulations, and standards. Every two years the wireless telecommunications service provider shall submit to the director of community development: (1) a certification by a licensed engineer that the emissions are within the current FCC standards; and (2) a report on the level of cumulative radio frequency emissions within an eight hundred-foot radius from the subject antenna.
6. All roof-mounted facilities shall be painted with a non-reflective matte finish using an appropriate color that blends with the backdrop. The final choice of colors shall be approved by the community development department, in accordance with section 17.98.120 of the Capitola Municipal Code.
7. The wireless communications facilities shall be constructed and operated in such a manner as to minimize the amount of noise impacts to adjacent uses and activities. Backup generators shall only be operated during power outages and for testing and maintenance purposes. At any time, noise attenuation measures may be required by the director when deemed necessary.
8. Testing and maintenance activities of wireless communications facilities which generate audible noise shall occur between the hours of eight a.m. and five p.m., weekdays (Monday through Friday, non-holiday) excluding emergency repairs, unless allowed at other times by the director. Testing and maintenance activities, which do not generate audible noise, may occur at any time, unless otherwise prohibited by the director.
9. All wireless communications providers shall provide signage, as required by the director, which shall identify the name and phone number of the wireless communications provider for use in case of an emergency.

10. The new wireless communications facilities shall be maintained by the wireless service provider in good condition. This shall include keeping all wireless communications facilities graffiti free.
11. The height of the new antennas, including the existing building height, are 34 feet-six inches. This is the maximum height approved by the Planning Commission. Future facility upgrades or co-locations shall not exceed the approved height of 34 feet-six inches. Future facility updates shall not attach additional mass to the rooftop antenna facilities without the approval of the Planning Commission.
12. The proposed equipment cabinet located behind the building at ground level must not exceed six feet in height, pursuant to section 17.98.080.G.4 of the municipal code. The equipment cabinet must be redesigned, or located partially underground to comply with this requirement.
13. At time of Building Permit submittal, the wireless carrier applicant must submit equipment specifications for all proposed roof-mounted equipment in order for the Building Department to verify existing structure's load capacity. The Building Department may require a report prepared by a structural and electrical engineer.
14. The wireless communications facility which provides service to the general public shall be designed to survive a natural disaster without interruption in operation. To this end, the measures listed in section 17.98.200 of the Municipal Code shall be implemented.
15. Wireless communications providers shall provide the city with a notice of intent to vacate a site a minimum of thirty days prior to the vacation, and all other forms of cessation of operation on-site shall follow the rules and regulations set forth in Municipal Code section 17.98.210.
16. In the event that the original permittee (Verizon) sells its interest in a wireless communication facility, the succeeding carrier shall assume all responsibilities concerning the project and shall be held responsible to the city for maintaining consistency with all project conditions of approval, including proof of liability insurance. A new contact name for the project (#15-156) shall be provided by the succeeding carrier to the community development department within thirty days of transfer of interest of the facility.
17. This permit shall be valid for a period of ten years. An approval may be extended administratively from the initial approval date for a subsequent ten years and may be extended administratively every ten years thereafter upon the verification of the wireless communications provider's continued compliance with Municipal Code chapter 17.98 and with the findings and conditions of approval under which the application was originally approved. This does not apply to preexisting legal nonconforming uses.
18. Should the director determine that the wireless communications facility may no longer be in compliance, the director may, at his or her discretion, schedule a public hearing before the planning commission at which the planning commission may

modify or revoke an approval in accordance with chapter 17.98.240 of the Municipal Code.

19. All wireless communications facilities shall meet the current standards and regulations of the Federal Communications Commission, the California Public Utilities Commission, and any other agency of the federal or state government with the authority to regulate wireless communications providers. If such standards and regulations are changed, the wireless communications provider shall bring its facilities into compliance with such revised standards and regulations within ninety days of the effective date of such standards and regulations, unless a more stringent compliance schedule is mandated by the controlling federal or state agency. Failure to bring wireless communications facilities into compliance with such revised standards and regulations shall constitute grounds for the immediate removal of such facilities at the wireless communications provider's expense.

### **FINDINGS**

- A. **The application, subject to the conditions imposed, will secure the purposes of the Zoning Ordinance and General Plan.**

The Planning Commission reviewed and approved the application with conditions of approval with respect to the maintenance, design and operation of the use to ensure that the new wireless facility will not have a negative impact on the surrounding residential, commercial, and office uses and secures the general purposes of the Zoning Ordinance and General Plan.

- B. **The application will maintain the character and integrity of the neighborhood.**

The Planning Commission reviewed and approved the application with conditions of approval to ensure that the antenna will not extend beyond the approved height of 34 feet-six inches (including existing building height) and will not be visually intrusive so as to preserve the character and identity of the commercial and office center and surrounding neighborhoods. The new equipment will mimic the design of a roof top vent, and is not located in a sensitive view corridor.

- C. **This project is categorically exempt under the Section 15301 of the California Environmental Quality Act and is not subject to Section 753.5 of Title 14 of the California Code of Regulations.**

The proposed project involves the construction of a new, small-cell Verizon wireless antenna facility. The project will result in a minor modification and addition to the rooftop of an existing office building. Section 15301 exempts the minor alteration of existing facilities.

### **COASTAL FINDINGS**

***D. Findings Required. A coastal permit shall be granted only upon adoption of specific written factual findings supporting the conclusion that the proposed development conforms to the certified Local Coastal Program, including, but not limited to:***

- The proposed development conforms to the City's certified Local Coastal Plan (LCP). The specific, factual findings, as per CMC Section 17.46.090 (D) are as follows:

***(D) (2) Require Project-Specific Findings. In determining any requirement for public access, including the type of access and character of use, the city shall***

*evaluate and document in written findings the factors identified in subsections (D) (2) (a) through (e), to the extent applicable. The findings shall explain the basis for the conclusions and decisions of the city and shall be supported by substantial evidence in the record. If an access dedication is required as a condition of approval, the findings shall explain how the adverse effects which have been identified will be alleviated or mitigated by the dedication. As used in this section, "cumulative effect" means the effect of the individual project in combination with the effects of past projects, other current projects, and probable future projects, including development allowed under applicable planning and zoning.*

*(D) (2) (a) Project Effects on Demand for Access and Recreation. Identification of existing and open public access and coastal recreation areas and facilities in the regional and local vicinity of the development. Analysis of the project's effects upon existing public access and recreation opportunities. Analysis of the project's cumulative effects upon the use and capacity of the identified access and recreation opportunities, including public tidelands and beach resources, and upon the capacity of major coastal roads from subdivision, intensification or cumulative build-out. Projection for the anticipated demand and need for increased coastal access and recreation opportunities for the public. Analysis of the contribution of the project's cumulative effects to any such projected increase. Description of the physical characteristics of the site and its proximity to the sea, tideland viewing points, upland recreation areas, and trail linkages to tidelands or recreation areas. Analysis of the importance and potential of the site, because of its location or other characteristics, for creating, preserving or enhancing public access to tidelands or public recreation opportunities;*

- The proposed wireless antenna project is proposed to be located on an existing office building at 4400 Capitola Road. There is no coastal access near the proposed site.

*(D) (2) (b) Shoreline Processes. Description of the existing shoreline conditions, including beach profile, accessibility and usability of the beach, history of erosion or accretion, character and sources of sand, wave and sand movement, presence of shoreline protective structures, location of the line of mean high tide during the season when the beach is at its narrowest (generally during the late winter) and the proximity of that line to existing structures, and any other factors which substantially characterize or affect the shoreline processes at the site. Identification of anticipated changes to shoreline processes at the site. Identification of anticipated changes to shoreline processes and beach profile unrelated to the proposed development. Description and analysis of any reasonably likely changes, attributable to the primary and cumulative effects of the project, to: wave and sand movement affecting beaches in the vicinity of the project; the profile of the beach; the character, extent, accessibility and usability of the beach; and any other factors which characterize or affect beaches in the vicinity. Analysis of the effect of any identified changes of the project, alone or in combination with other anticipated changes, will have upon the ability of the public to use public tidelands and shoreline recreation areas;*

- The proposed project is located along Capitola Road. The proposed wireless facility will not affect the public beach or shoreline.

*(D) (2) (c) Historic Public Use. Evidence of use of the site by members of the general public for a continuous five-year period (such use may be seasonal). Evidence of the type and character of use made by the public (vertical, lateral,*



*blufftop, etc., and for passive and/or active recreational use, etc.). Identification of any agency (or person) who has maintained and/or improved the area subject to historic public use and the nature of the maintenance performed and improvements made. Identification of the record owner of the area historically used by the public and any attempts by the owner to prohibit public use of the area, including the success or failure of those attempts. Description of the potential for adverse impact on public use of the area from the proposed development (including but not limited to, creation of physical or psychological impediments to public use);*

- There is not history of public use on the subject lot.

**(D) (2) (d) Physical Obstructions.** *Description of any physical aspects of the development which block or impede the ability of the public to get to or along the tidelands, public recreation areas, or other public coastal resources or to see the shoreline;*

- The proposed project is located on private property on Capitola Road. The project will not block or impede the ability of the public to get to or along the tidelands, public recreation areas, or views to the shoreline.

**(D) (2) (e) Other Adverse Impacts on Access and Recreation.** *Description of the development's physical proximity and relationship to the shoreline and any public recreation area. Analysis of the extent of which buildings, walls, signs, streets or other aspects of the development, individually or cumulatively, are likely to diminish the public's use of tidelands or lands committed to public recreation. Description of any alteration of the aesthetic, visual or recreational value of public use areas, and of any diminution of the quality or amount of recreational use of public lands which may be attributable to the individual or cumulative effects of the development.*

- The proposed project is located on private property rooftop and will not impact access and recreation. The project does not diminish the public's use of tidelands or lands committed to public recreation nor alter the aesthetic, visual or recreational value of public use areas.

**(D) (3) (a – c) Required Findings for Public Access Exceptions.** *Any determination that one of the exceptions of subsection (F) (2) applies to a development shall be supported by written findings of fact, analysis and conclusions which address all of the following:*

*a. The type of access potentially applicable to the site involved (vertical, lateral, bluff top, etc.) and its location in relation to the fragile coastal resource to be protected, the agricultural use, the public safety concern, or the military facility which is the basis for the exception, as applicable;*

*b. Unavailability of any mitigating measures to manage the type, character, intensity, hours, season or location of such use so that agricultural resources, fragile coastal resources, public safety, or military security, as applicable, are protected;*

*c. Ability of the public, through another reasonable means, to reach the same area of public tidelands as would be made accessible by an access way on the subject land.*

- The project is not requesting a Public Access Exception, therefore these findings do not apply.

***(D) (4) (a – f) Findings for Management Plan Conditions. Written findings in support of a condition requiring a management plan for regulating the time and manner or character of public access use must address the following factors, as applicable:***

***a. Identification and protection of specific habitat values including the reasons supporting the conclusions that such values must be protected by limiting the hours, seasons, or character of public use;***

- The project is located at 4400 Capitola Road. The proposal consists of a minor structural addition to an existing roof top. The use will not be limited to seasons or hours. The project is required to comply with FCC regulations related to environmental and public health and safety.

***b. Topographic constraints of the development site;***

- The project is located on a flat lot.

***c. Recreational needs of the public;***

- The project does not impact recreational needs of the public, however it will be visible from Capitola Road public right-of-way.

***d. Rights of privacy of the landowner which could not be mitigated by setting the project back from the access way or otherwise conditioning the development;***

***e. The requirements of the possible accepting agency, if an offer of dedication is the mechanism for securing public access;***

***f. Feasibility of adequate setbacks, fencing, landscaping, and other methods as part of a management plan to regulate public use.***

***(D) (5) Project complies with public access requirements, including submittal of appropriate legal documents to ensure the right of public access whenever, and as, required by the certified land use plan and Section 17.46.010 (coastal access requirements);***

- No legal documents to ensure public access rights are required for the proposed project

***(D) (6) Project complies with visitor-serving and recreational use policies;***

#### **SEC. 30222**

***The use of private lands suitable for visitor-serving commercial recreational facilities designed to enhance public opportunities for coastal recreation shall have priority over private residential, general industrial, or general commercial development, but not over agriculture or coastal-dependent industry.***

- The project is proposed to be located on an existing office building (zoned Professional Office) lot of record.

#### **SEC. 30223**

***Upland areas necessary to support coastal recreational uses shall be reserved for such uses, where feasible.***

- The project is proposed to be located on an existing private property office-use lot of record.

***c) Visitor-serving facilities that cannot be feasibly located in existing developed areas shall be located in existing isolated developments or at selected points of attraction for visitors.***

- The project is proposed to be located on an existing professional office-use lot of record.

***(D) (7) Project complies with applicable standards and requirements for provision of public and private parking, pedestrian access, alternate means of transportation and/or traffic improvements;***

- The project involves an antenna addition to an existing office building. The proposal does not affect parking, and thus complies with applicable standards and requirements for provision for parking, pedestrian access, and alternate means of transportation and/or traffic improvements.

***(D) (8) Review of project design, site plan, signing, lighting, landscaping, etc., by the city's architectural and site review committee, and compliance with adopted design guidelines and standards, and review committee recommendations;***

- The project complies with the design guidelines and standards established by the Municipal Code.

***(D) (9) Project complies with LCP policies regarding protection of public landmarks, protection or provision of public views; and shall not block or detract from public views to and along Capitola's shoreline;***

- The project will not negatively impact public landmarks and/or public views. The project will not block public views to and along Capitola's shoreline, however it will be slightly visible to the public from Capitola Road.

***(D) (10) Demonstrated availability and adequacy of water and sewer services;***

- The project is located on a legal lot of record with available water and sewer services.

***(D) (11) Provisions of minimum water flow rates and fire response times;***

- The project is located within close proximity of the Capitola fire department. Water is available at the location.

***(D) (12) Project complies with water and energy conservation standards;***

- The project is for a new small-cell wireless antenna facility. No water fixtures are proposed.

***(D) (13) Provision of park dedication, school impact, and other fees as may be required;***

- The project will be required to pay appropriate fees prior to building permit issuance.

***(D) (14) Project complies with coastal housing policies, and applicable ordinances including condominium conversion and mobile home ordinances;***

- The project does not involve a condo conversion or mobile homes.

***(D) (15) Project complies with natural resource, habitat, and archaeological protection policies;***

- Conditions of approval have been included to ensure compliance with established policies.

***(D) (16) Project complies with Monarch butterfly habitat protection policies;***

- The project is outside of any identified habitats where Monarch Butterflies have been encountered, identified and documented.

***(D) (17) Project provides drainage and erosion and control measures to protect marine, stream, and wetland water quality from urban runoff and erosion;***

- Conditions of approval have been included to ensure compliance with applicable erosion control measures.

***(D) (18) Geologic/engineering reports have been prepared by qualified professional for projects in seismic areas, geologically unstable areas, or coastal bluffs, and project complies with hazard protection policies including provision of appropriate setbacks and mitigation measures;***

- Geologic/engineering reports are not required for this application. Conditions of approval have been included to ensure the project applicant shall comply with all applicable requirements of the most recent version of the California Building Standards Code.

***(D) (19) All other geological, flood and fire hazards are accounted for and mitigated in the project design;***

- Conditions of approval have been included to ensure the project complies with geological, flood, and fire hazards and are accounted for and will be mitigated in the project design.

***(D) (20) Project complies with shoreline structure policies;***

- The proposed project is not located along a shoreline.

***(D) (21) The uses proposed are consistent with the permitted or conditional uses of the zoning district in which the project is located;***

- The use is not allowed where it is proposed, being that it is within 500 feet of a restricted residential zone. An exception was made to the location standards due to the “significant gap” and “least intrusive means” findings.

***(D) (22) Conformance to requirements of all other city ordinances, zoning requirements, and project review procedures;***

- The project does not conform in that it is proposed in a restricted area.

***(D) (23) Project complies with the Capitola parking permit program as follows:***

- The project will not affect the Capitola parking permit program.

**ATTACHMENTS:**

1. Verizon Project Plans and Information
2. Site Planning and Zoning Review
3. Wireless Facility Findings of Approval

Prepared By: Ryan Safty  
Assistant Planner



# CAPITOLA MALL SC2

4400 CAPITOLA RD  
CAPITOLA, CA 95010

SITE INFORMATION	VICINITY MAP	PROJECT TEAM	PROJECT DESCRIPTION																																
<b>OWNER:</b> - <b>APPLICANT:</b> VERIZON WIRELESS 2765 MITCHELL DRIVE, SUITE #9 WALNUT CREEK, CA 94596 <b>AGENT:</b> NEXIUS 1301 CENTRAL EXPRESSWAY SOUTH, SUITE #200 ALLEN, TX 75013 (703) 650-7777 <b>APN:</b> 084-111-53 <b>SITE ADDRESS:</b> 4400 CAPITOLA RD CAPITOLA, CA 95010 <b>COUNTY:</b> SANTA CRUZ <b>LATITUDE:</b> 36° 59' 24.31" N (36.973419) NAD 83 <b>LONGITUDE:</b> 121° 57' 39.00" W (-121.960833) NAD 83 <b>GROUND ELEVATION:</b> ±61.9' AMSL <b>ZONING:</b> BUSINESS COMMERCIAL <b>ZONING JURISDICTION:</b> CITY OF CAPITOLA		<b>AGENT:</b> BOB GUNDERMANN DEACON DEVELOPMENT 1157 GREENWOOD ROAD PLACANTON, CA 94566 (925) 699-1999 BOB@DEACONDEV.NET <b>PROJECT MANAGER:</b> JENNIFER HAAS NEXIUS 1301 CENTRAL EXPRESSWAY SOUTH, SUITE #200 ALLEN, TX 75013 (650) 759-1977 JENNIFER.HAAS@NEXIUS.COM <b>CONSTRUCTION MANAGER:</b> ZACHARY MANN NEXIUS 1301 CENTRAL EXPRESSWAY SOUTH, SUITE #200 ALLEN, TX 75013 (650) 754-5462 ZACHARY.MANN@NEXIUS.COM <b>ARCHITECT/ENGINEER ON RECORD:</b> BRIET MCCOMB PRECISION DESIGN & DRAFTING INC. 11768 ATWOOD ROAD, SUITE #20 AUBURN, CA 95603 (530) 823-6346 BRD@PRDND.COM <b>VERIZON PROJECT MANAGER:</b> MAUREEN CRUZEN (925) 279-6636 MAUREEN.CRUZEN@VERIZONWIRELESS.COM	<p>THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR VERIZON WIRELESS CONSISTING OF THE INSTALLATION &amp; OPERATION OF ANTENNAS &amp; ASSOCIATED EQUIPMENT OF AN (E) ROOFTOP.</p> <p><b>SCOPE OF WORK:</b></p> <ol style="list-style-type: none"> <li>1. INSTALL (7) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) ROOFTOP. EQUIPMENT INSTALLED CONSISTS OF (6) (7) NRUS, 16 GPS ANTENNA, &amp; (2) (7) AMPHENOL CYLINDRICAL ANTENNAS ON (7) ANTENNA MASTS</li> <li>2. (7) CHARLES CABINET MOUNTED ON (7) CONCRETE SLAB ON SOUTHEAST CORNER OF BUILDING</li> <li>3. ALL EQUIPMENT TO BE PAINTED TO MATCH (E) BUILDING</li> <li>4. (E) POINT OF CONNECTION FOR POWER TO BE PULLED FROM (E) FIRST FLOOR SWITCH GEAR IN (E) ELECTRICAL ROOM</li> <li>5. (E) POINT OF CONNECTION FOR FIBER TO BE PULLED FROM (E) TELCO BOARD ON FIRST FLOOR IN (E) ELECTRICAL ROOM</li> </ol>																																
			<p align="center"><b>DRAWING INDEX</b></p> <p>SHEET NO: SHEET TITLE</p> <table border="1"> <tr> <td>T-1</td> <td>TITLE SHEET</td> </tr> <tr> <td>T-2</td> <td>GENERAL NOTES, LEGEND, &amp; ABBREVIATIONS</td> </tr> <tr> <td>C-1</td> <td>SITE SURVEY</td> </tr> <tr> <td>A-1</td> <td>SITE PLAN</td> </tr> <tr> <td>A-2</td> <td>EQUIPMENT PLAN &amp; ANTENNA PLAN A</td> </tr> <tr> <td>A-3</td> <td>ANTENNA PLAN B</td> </tr> <tr> <td>A-4</td> <td>ELEVATIONS</td> </tr> <tr> <td>A-5</td> <td>ELEVATIONS</td> </tr> <tr> <td>A-6</td> <td>DETAILS</td> </tr> </table>	T-1	TITLE SHEET	T-2	GENERAL NOTES, LEGEND, & ABBREVIATIONS	C-1	SITE SURVEY	A-1	SITE PLAN	A-2	EQUIPMENT PLAN & ANTENNA PLAN A	A-3	ANTENNA PLAN B	A-4	ELEVATIONS	A-5	ELEVATIONS	A-6	DETAILS														
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<p align="center"><b>CODE COMPLIANCE</b></p> <p>CONSTRUCTION WORKS &amp; MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE &amp; LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:</p> <ol style="list-style-type: none"> <li>1. 2013 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 &amp; 25)</li> <li>2. 2013 CALIFORNIA BUILDING CODE</li> <li>3. 2013 CALIFORNIA ELECTRICAL CODE</li> <li>4. 2013 CALIFORNIA MECHANICAL CODE</li> <li>5. 2013 CALIFORNIA PLUMBING CODE</li> <li>6. 2013 CALIFORNIA FIRE CODE</li> <li>7. LOCAL BUILDING CODES</li> <li>8. CITY/COUNTY ORDINANCES</li> <li>9. ANSI/ASHRAE-TIA-222-G</li> </ol> <p><b>HANDICAP REQUIREMENTS</b></p> <p>THIS FACILITY IS UNMANNED &amp; NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS &amp; REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1</p>	<p align="center"><b>DRIVING DIRECTIONS</b></p> <p align="center"><u>DIRECTIONS FROM VERIZON WIRELESS WALNUT CREEK OFFICE</u></p> <p>FROM: 2765 MITCHELL DR, WALNUT CREEK, CA 94596            TO: 4400 CAPITOLA RD, CAPITOLA, CA 95010</p> <table border="1"> <tr> <td>1. HEAD NORTHEAST ON MITCHELL DR TOWARD OAK GROVE RD</td> <td>30 FT</td> </tr> <tr> <td>2. TURN RIGHT ONTO OAK GROVE RD</td> <td>0.4 MI</td> </tr> <tr> <td>3. TURN RIGHT ONTO YGNACIO VALLEY RD</td> <td>3.4 MI</td> </tr> <tr> <td>4. YGNACIO VALLEY RD TURNS SLIGHTLY RIGHT AND BECOMES HILLSIDE AVE</td> <td>0.1 MI</td> </tr> <tr> <td>5. TURN LEFT ONTO THE INTERSTATE 680 S RAMP TO SAN JOSE</td> <td>0.3 MI</td> </tr> <tr> <td>6. MERGE ONTO I-680 S</td> <td>35.5 MI</td> </tr> <tr> <td>7. TAKE THE MISSION BLVD / STATE ROUTE 262 EXIT TOWARD I-680</td> <td>0.2 MI</td> </tr> <tr> <td>8. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO MISSION BLVD</td> <td>0.8 MI</td> </tr> <tr> <td>9. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 680 S / SAN JOSE AND MERGE ONTO I-680 S</td> <td>13.0 MI</td> </tr> <tr> <td>10. CONTINUE ONTO CA-17 S</td> <td>26.5 MI</td> </tr> <tr> <td>11. TAKE THE CALIFORNIA 1 S EXIT TOWARD WATSONVILLE / MONTEREY</td> <td>0.7 MI</td> </tr> <tr> <td>12. MERGE ONTO CA-1 S</td> <td>2.6 MI</td> </tr> <tr> <td>13. TAKE THE 41ST AVE EXIT</td> <td>0.3 MI</td> </tr> <tr> <td>14. TURN RIGHT ONTO 41ST AVE</td> <td>0.5 MI</td> </tr> <tr> <td>15. TURN LEFT ONTO CAPITOLA RD</td> <td>0.2 MI</td> </tr> <tr> <td>16. TURN RIGHT, DESTINATION WILL BE ON LEFT</td> <td>11.2 FT</td> </tr> </table> <p>END AT: 4400 CAPITOLA RD, CAPITOLA, CA 95010</p> <p>ESTIMATED TIME: 1 HR 37 MIN      ESTIMATED DISTANCE: 62.3 MI</p>	1. HEAD NORTHEAST ON MITCHELL DR TOWARD OAK GROVE RD	30 FT	2. TURN RIGHT ONTO OAK GROVE RD	0.4 MI	3. TURN RIGHT ONTO YGNACIO VALLEY RD	3.4 MI	4. YGNACIO VALLEY RD TURNS SLIGHTLY RIGHT AND BECOMES HILLSIDE AVE	0.1 MI	5. TURN LEFT ONTO THE INTERSTATE 680 S RAMP TO SAN JOSE	0.3 MI	6. MERGE ONTO I-680 S	35.5 MI	7. TAKE THE MISSION BLVD / STATE ROUTE 262 EXIT TOWARD I-680	0.2 MI	8. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO MISSION BLVD	0.8 MI	9. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 680 S / SAN JOSE AND MERGE ONTO I-680 S	13.0 MI	10. CONTINUE ONTO CA-17 S	26.5 MI	11. TAKE THE CALIFORNIA 1 S EXIT TOWARD WATSONVILLE / MONTEREY	0.7 MI	12. MERGE ONTO CA-1 S	2.6 MI	13. TAKE THE 41ST AVE EXIT	0.3 MI	14. TURN RIGHT ONTO 41ST AVE	0.5 MI	15. TURN LEFT ONTO CAPITOLA RD	0.2 MI	16. TURN RIGHT, DESTINATION WILL BE ON LEFT	11.2 FT	<p>At all services &amp; grounding trenches, provide "WARNING" tape at 12" below grade.</p> <p align="center"> <b>CALL</b>  <b>"CALL BEFORE YOU DIG"</b>  <b>811/800-227-2600</b>  <b>NATIONWIDE UNDERGROUND SERVICE ALERT</b> </p>	<p align="center"><b>ADMINISTRATIVE REQUIREMENTS</b></p> <p>CONTRACTOR SHALL VERIFY ALL PLANS &amp; (E) DIMENSIONS &amp; CONDITIONS ON THE JOB SITE &amp; SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 1" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.</p>
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8. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO MISSION BLVD	0.8 MI																																		
9. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 680 S / SAN JOSE AND MERGE ONTO I-680 S	13.0 MI																																		
10. CONTINUE ONTO CA-17 S	26.5 MI																																		
11. TAKE THE CALIFORNIA 1 S EXIT TOWARD WATSONVILLE / MONTEREY	0.7 MI																																		
12. MERGE ONTO CA-1 S	2.6 MI																																		
13. TAKE THE 41ST AVE EXIT	0.3 MI																																		
14. TURN RIGHT ONTO 41ST AVE	0.5 MI																																		
15. TURN LEFT ONTO CAPITOLA RD	0.2 MI																																		
16. TURN RIGHT, DESTINATION WILL BE ON LEFT	11.2 FT																																		
			<p align="center"><b>PRECISION DESIGN</b>  <b>Drafting, Inc.</b>            Phone: (530) 823-6346    www.prdnd.com            11768 Atwood Rd, Suite 20 Auburn, CA 95603</p> <p align="center"><b>VERIZON WIRELESS</b>            2765 MITCHELL DRIVE, SUITE #9            WALNUT CREEK, CA 94596</p> <p align="center"><b>NEXIUS</b>            1301 CENTRAL EXPRESSWAY SOUTH            ALLEN, TX 75013            (703) 650-7777            WWW.NEXIUS.COM</p> <p align="center"> </p> <p align="center"><b>CAPITOLA MALL SC2</b></p> <p align="center">4400 CAPITOLA RD CAPITOLA, CA 95010</p> <p align="center"><b>ISSUE STATUS</b></p> <table border="1"> <tr> <th>△</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td></td> <td>04/29/15</td> <td>2D 90%</td> </tr> <tr> <td></td> <td>07/11/15</td> <td>2D 100%</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> <p>DRAWN BY: G. WATKINS            CHECKED BY: T. LAWRENCE / M. WESSE            APPROVED BY: B. MCCOMB            DATE: 07/11/15            SHEET TITLE:            TITLE SHEET            SHEET NUMBER:  <b>T-1</b></p>	△	DATE	DESCRIPTION		04/29/15	2D 90%		07/11/15	2D 100%																							
△	DATE	DESCRIPTION																																	
	04/29/15	2D 90%																																	
	07/11/15	2D 100%																																	



### GENERAL CONSTRUCTION NOTES

1. PLANS ARE INTENDED TO BE STANDARD CONSTRUCTION. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE PROVIDING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR DESCRIBED BY THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL CONTACT UTA (UNDERGROUND SERVICE UNIT) AT (800) 227-2200, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY DIGGATION, USE WORK OR CONSTRUCTION.
4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY'S REQUIREMENTS REGARDING SURVEILLANCE RESISTANCE, FOR, BUT NOT LIMITED TO, PILING, PILES, PIERES, CEILING GIRD, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL BUILDING CODES AND REGULATIONS.
6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLAN OF SURVEY DRAWINGS, SHALL NOT BE USED TO OBTAIN OR DETERMINE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL STUDY ON THE PLAN OF SURVEY DRAWING AND ANY SURVEYORS WARNING AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. AN ERROR/OMISSION IS FOLLOWS DURING THE COURSE OF LOCATING THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS EXPRESSED ON THE FINAL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE DEPARTMENT, CIVIL PLANNING DIVISION.
8. TO NOT DISTURB OR OBTAIN UNLESS THE PROPERTY LIES OR LEAKS LINES, UNLESS OTHERWISE NOTED.
9. ALL EXISTING UTILITIES, PROTECT, COVERS, AND OTHER STRUCTURES ON THE PLAN HAVE BEEN NOTIFIED FROM AVAILABLE RECORDS, THE ARCHITECT/ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE WHETHER OF THEIR REMOVAL OR DISBURSMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING DETAILED LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAIL INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ALTERING EXISTING UTILITIES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICAL, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DISCREPANCIES AS DUE TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHASED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO DO SO SHALL BE CONSIDERED AS CONSTRUCTION AT HIS/HER OWN RISK AND WITHOUT.
11. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREA TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FIT WITH EXISTING PLANS PRIOR TO FINAL EDITION OF WORK.
12. ANY PRIMA BEHIND SHALL BE DISCOVERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK, SO LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON 30'-X-60' DRAWINGS BY GENERAL CONTRACTOR, WITH COPIES TO THE ARCHITECT/ENGINEER FOR CONSTRUCTION OF PROJECT.
13. ALL TEMPORARY DISCLOSURES FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC. SHALL BE PROTECTED AND BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPANCY, SAFETY AND HEALTH RECOMMENDATION (OSHA) REQUIREMENTS.
14. INCLUDE MUSIC THAT THE PERSONS WISHING TO PROTECT.

### GENERAL NOTES FOR EXISTING CELL SITES

1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE COMPLETED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND MUST BE SUBJECT TO THE ALTERATION OF CONSTRUCTION.
2. SUBCONTRACTOR SHALL VISIT ALL EXISTING DAMAGED AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DAMAGED OR DESTRUCTION CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DAMAGED PRIOR TO COMMENCING ANY WORK OR PROCEEDING WITH CONSTRUCTION.
3. THE DISTANCE BETWEEN IT IS FULL COMPLIANCE. OPERATIONS. ANY WORK ON DAMAGED OR DESTRUCTION SHALL COMPLY THE DISTANCE NORMAL OPERATIONS. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE WORKING HOURS (FROM 8:00 AM TO 5:00 PM) TO AVOID INTERFERE WITH TRAFFIC.
4. SINCE THE CLIMATE IS HOT, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH VOLTAGE ELECTRIFICATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. FOLLOWING SAFETY MEASURES ARE ADVISED TO REDUCE TO A LEVEL OF ANY DAMAGED EQUIPMENT USE.
5. SUBCONTRACTOR SHALL MAINTAIN ACTUAL RECORDING OF CONSTRUCTION, TYPES AND NO. OF CREWS, INCLUDING CREWS AS SHOWN ON THE PLANS, INCLUDING AND TIEED UP PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAIL AND/OR SIGNAL AND NEW TRAILS AS NECESSARY. SUBCONTRACTOR SHALL CONTINUE THE ACTUAL RECORDING WITH THE CONTRACTOR.
6. SUBCONTRACTOR SHALL ENFORCE AND PROMOTE ENFORCE OF ALL SAFETY MATERIALS SUCH AS CONE, CHAINS AND OTHER ITEMS RECEIVED FROM THE DISTRICT OFFICE. MATERIALS RECEIVED SHALL BE RETURNED TO THE OWNERS IMMEDIATELY.

### APPLICABLE CODES, REGULATIONS, AND STANDARDS

1. SUBCONTRACTORS SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION OVER THE LOCATION.
2. THE EDITION OF THE ASU ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3. SUBCONTRACTORS SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
  - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 13TH EDITION
  - TELECOMMUNICATIONS INDUSTRY (ANSI) T368.7, STRUCTURAL STANDARDS FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
  - ASSOCIATION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE), 802.3, GUIDELINES FOR LAN/WAN DATA NETWORKS, BROADBAND, AND OTHER SURFACE STRUCTURES OF A BROADBAND SYSTEM
  - RECOMMENDED PRACTICES FOR DESIGN AND CONSTRUCTION OF ELECTRICAL EQUIPMENT
  - IEEE 681-1, RECOMMENDED PRACTICES FOR SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS FOR LOCATION CATEGORY "C" AND "HIGH SYSTEM VOLTAGES"
4. GENERAL ELECTRICAL, COMMUNICATIONS AND WIRING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELECOM DATA NETWORK EQUIPMENT-BUILDING SYSTEM (WIRE) PHYSICAL PROTECTION:
  - TELECOM OR-147 GENERAL, OFFICE POWER SYSTEMS
  - TELECOM OR-175 GENERAL, REGULATION REQUIREMENTS
  - TELECOM OR-1808 GENERAL, CABLE CONNECTIONS
5. ANY AND ALL OTHER LOCAL, STATE, LAND AND REGULATIONS
6. FOR ANY CONFLICT BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHOD OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN.

### GENERAL TRENCHING NOTES

1. MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
2. MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
3. MAINTAIN 1" SAND SHADING BELOW CONDUITS, AND 4" COVERING ON TOP OF CONDUITS REQUIRED.
4. ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM MAIN POLE, TRANSFORMER, OR OTHER LOCATION WILL BE SURVEY BACKLASH.
5. IN STREET SURVEY TO GRADE AND BACKLASH 1'-10" FOR AN 8" CP.
6. IN DIRT SURVEY 1'0" FROM GRADE AND WILL 80% COMPACTION NATIVE SOIL FOR BALANCE.
7. WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND 10" WARNING TAPE ABOVE GROUND.

### GENERAL GROUNDING NOTES

1. 5/8" x 10' ROD, CAP WELD BELOW GRIND.
2. GROUND TESTED AT 5 OHMS OR LESS.
3. #5 GROUND AND BOND WIRE.
4. GROUNDS 3' FROM POLE.
5. PLACE 5 #10 GA WIRES FROM TESCO BREAKER TO FEND OR STRONG BO.
6. WOOD MOULDING, STAPLED EVERY 3" AND AT EACH END.

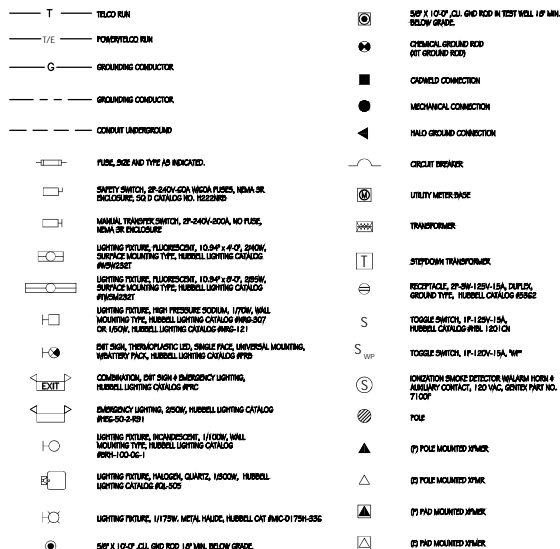
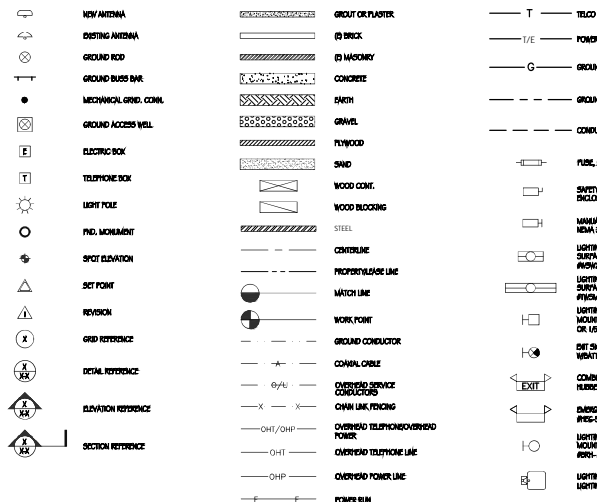
### GENERAL CONDUIT NOTES

1. ALL CONDUITS SHALL BE MINIMUM 2" AND EQUIPPED WITH 80' FULL ROLL.
2. SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
3. SCHEDULE 80 CONDUIT FOR NEAR USE.
- 4.
5. IF GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUD UP 1/2" THEN CONDUIT TO SCHEDULE 80.
6. CONDUIT 4" CONDUIT TO 3" AT BASE OF POLE.
7. CONTRACTOR TO SUBMIT A 3/4" x 4" POWER CONDUIT. POWER COMPANY TO COMMENT FROM 3" STUD SCHEDULE 40 TO 2" SCHEDULE 40 FROM TOP OF STUD UP.

## TYPICAL R.O.W. POLE CONSTRUCTION NOTES


1. CHECK NOT TO IMPROVE 1/4 CUP SPACE OVER FOLEY PLAGE.
2. ALL CLIMAS STOPS MUST BE CONDUCTED UNTIL HAVE EXCEEDED STOPS.
3. ALL BOUTS IN FOLEY MUST BE PERFORMED IN LESS THAN 1-1/2 HOURS.
4. NO HOLD IN FOLEY AFTER FROM REINFORCEMENT OF CLIMAS TO BE PLACED.
5. NO POINT DROPS UNDER ANTERIOR OR POSTERIOR THROAT ON THE INSIDE DIRECTION OF THE ARM AND ON CABLE ON TOP OF ARM.
6. USE ROY CONNECTOR AT CABLE CONNECTION FOR CLIMAS DOWN ANTERIORS.
7. USE CABLE RINGS TO SECURE CABLE TO ARM, PLACE 2 TACKLE CABLE 1/4 TAGS ON BOTH SIDES OF ARM.
8. USE 1/4 IN DIA. CABLE ON ANTERIOR UNLESS OTHERWISE SPECIFIED.
9. PLACE 3/8 IN DIA. CABLE ON SCOUTING SHIP EXPOSED AN ANTERIOR OF FROM THROAT ANTERIOR WHICH IS 3/4 IN DIA FROM CENTER OF FOLEY.
10. ALL ANTERIOR CABLES AT CABLE END MUST BE SECURED TO THE CABLE END.

## SYMBOLS LEGEND

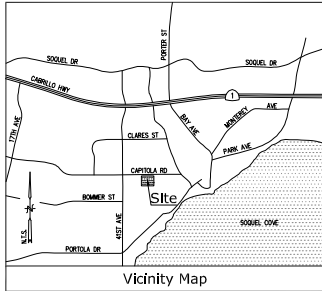


## ABBREVIATIONS

[illegible]

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CAPITOLA MALL SC2		
4400 CAPITOLA RD CAPITOLA, CA 95010		
ISSUE STATUS		
△	DATE	DESCRIPTION
	04/09/15	2D 90%
	07/11/15	2D 100%
DRAWN BY: G. WATKINS		
CHECKED BY: T. LAWRENCE / M. WE		
APPROVED BY: B. MCCOMB		
DATE:	07/11/15	
SHEET TITLE:		
GENERAL NOTES, LEGEND # ABBREVIATIONS		
SHEET NUMBER		
T-2		



Vicinity Map

### Title Report

PREPARED BY: U.S. TITLE SOLUTIONS  
ORDER NO.: 03371-04-1000-0000  
DATED: MAY 21, 2015

### Legal Description

PARCEL A AS THE SAME IS SHOWN UPON THAT CERTAIN PARCEL MAP FILED FOR RECORD JANUARY 31, 1990 IN VOLUME 50 OF PARCEL MAPS, PAGE 58, SANTA CRUZ COUNTY RECORDS.

### Assessor's Parcel No.

034-111-53

### Easements

- EASEMENT AGREEMENT BY CAPITOLA OFFICE PLAZA, LTD., A CALIFORNIA LIMITED PARTNERSHIP TO LLOYD J. MARSH, DATED 3/8/1984, RECORDED 9/17/1984 IN BOOK 3766 PAGE 833 IN INSTRUMENT NO. 44473. (PLOTTED HEREON)
- GRANT OF EASEMENT BY REDWOOD RETREAT COMPANY, A GENERAL PARTNERSHIP TO PACIFIC BELL, A CORPORATION, DATED 11/15/1985 RECORDED 11/27/1985 IN BOOK 3813 PAGE 845 IN INSTRUMENT NO. 008935. (PLOTTED HEREON)
- EASEMENT BY REDWOOD RETREAT INVESTMENT COMPANY, A PARTNERSHIP TO PACIFIC GAS AND ELECTRIC COMPANY, A CALIFORNIA CORPORATION, DATED 5/12/1985 RECORDED 5/29/1985 IN BOOK 3848 PAGE 370 IN INSTRUMENT NO. 008985. (PLOTTED HEREON)
- SATISFACTION OF EASEMENT AGREEMENT, DATED 3/8/1987 RECORDED 3/16/1987 IN BOOK 4177 PAGE 366 IN INSTRUMENT NO. 015853. (PLOTTED HEREON)
- 15. GRANT OF PARKING EASEMENT BY REDWOOD RETREAT INVESTMENT COMPANY, A CALIFORNIA GENERAL PARTNERSHIP TO CALIFORNIA STATE AUTOMOBILE ASSOCIATION, A CALIFORNIA CORPORATION, DATED 11/27/1985 RECORDED 7/10/1990 IN BOOK 4700 PAGE 422 IN INSTRUMENT NO. 40257. (PLOTTED HEREON)

### Access Easement/Lease Area

TO BE DETERMINED

### Geographic Coordinates at Center of Proposed Structures

1983 DATUM: LATITUDE: 36° 58' 24.31"N LONGITUDE: 121° 57' 34.00"W  
ELEVATION = 81.8 FEET ABOVE MEAN SEA LEVEL  
CERTIFICATION:  
THE LATITUDE AND LONGITUDE SHOWN ABOVE ARE ACCURATE TO WITHIN 1/1000 OF A FOOT HORIZONTALLY AND 1/1000 OF A FOOT VERTICALLY. THE HORIZONTAL DATUM (GEODETIC COORDINATES) IS IN TERMS OF THE NORTH AMERICAN DATUM OF 1983 (NAD 83) AND IS EXPRESSED IN DEGREES (°), MINUTES (') AND SECONDS ("). TO THE NEAREST HUNDREDTH OF A SECOND. THE VERTICAL DATUM (ELEVATION) IS IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND IS DETERMINED TO THE NEAREST TENTH OF A FOOT.

### Basis of Bearings

THE STATE PLANE COORDINATE SYSTEM OF 1983 (NAD 83), CALIFORNIA ZONE 3.

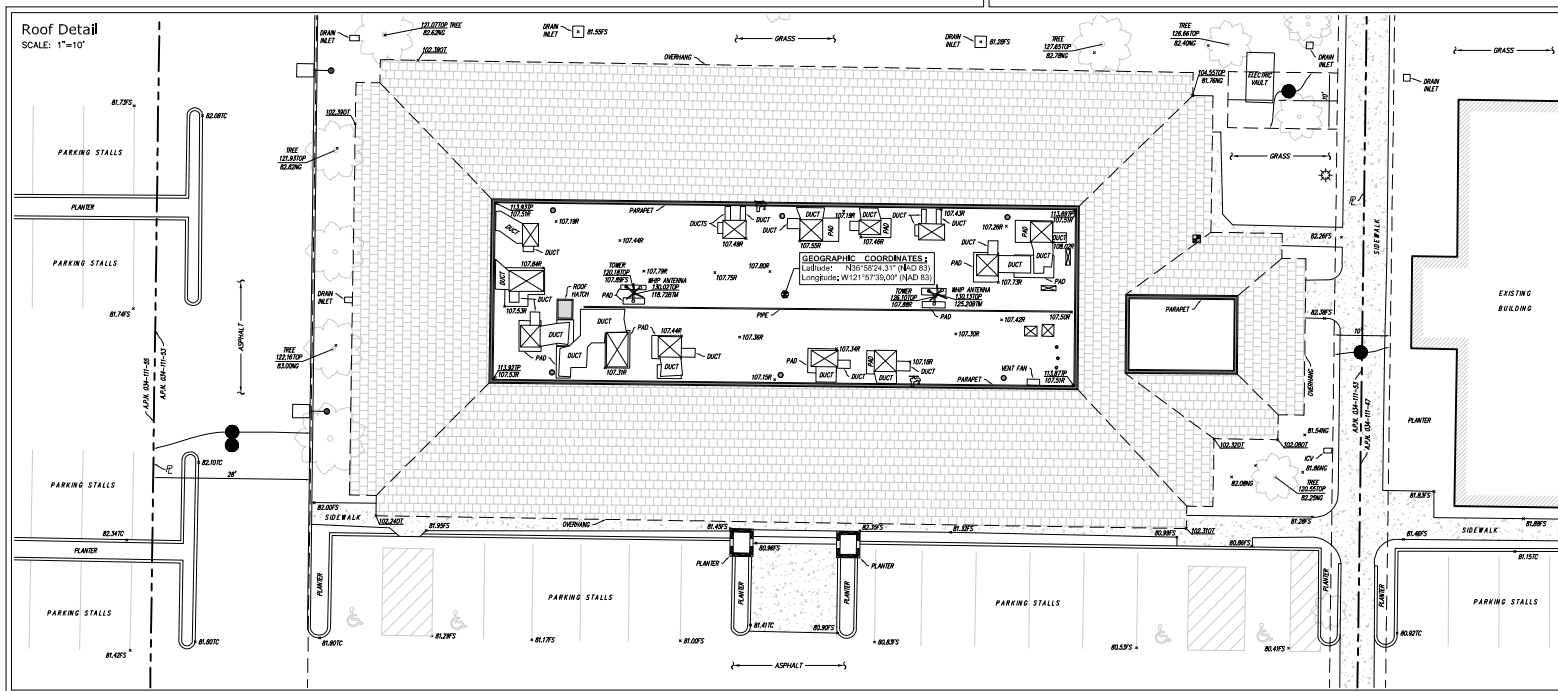
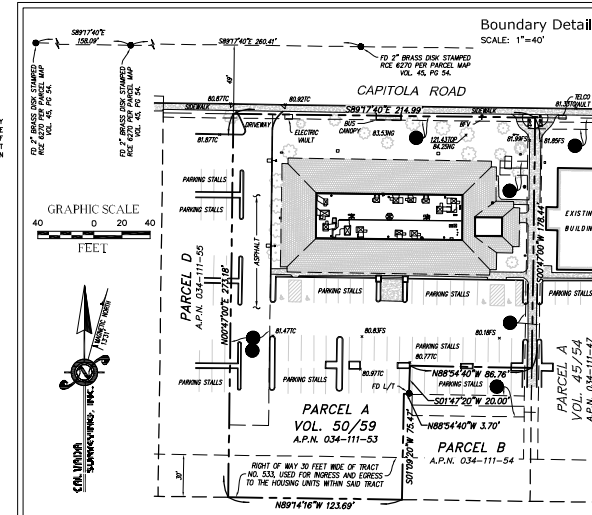
### Bench Mark

THE CALIFORNIA SPATIAL REFERENCE CENTER CODES "P212", ELEVATION = 230.71 FEET (NAVD 88).

### Date of Survey

MARCH 26, 2015

Legend	
AC-UNIT	NATURAL GROUND
BLV	BACKFLOW VALVE
BL	BLACK WALL
CL	CENTER LINE
CC	CONCRETE PAVEMENT
FS	FRESH SURFACE
FC	FIRE DEPARTMENT CONNECTION
FCI	FIRE HYDRANT
FL	FOUND MONUMENT
HCY	HANDICAP
ICV	IRREGULAR CONTROL VALVE
LC	LATITUDE-LONGITUDE COORDINATE
LI	LIGHT
NO	NATURAL GROUND
PI	POST INDICATOR VALVE
OT	OVERHANG TOP
R	ROOF
RD	ROAD
TC	TOP OF CURB
TP	TOP OF PARAPET
TS	TOP OF STRUCTURE
W	WENT
WF	WATER FAUCET
WM	WATER METER
WA	WAMP ANTENNA



PLANS PREPARED BY:

**CAL VADA SURVEYING, INC.**  
411 Janka Ct., Suite 205, Corona, CA 92680  
Phone: (951) 265-5990 Fax: (951) 265-0746  
Toll Free: 800-CALVADA www.calvada.com  
JOB NO. 15108

CONSULTING GROUP:

**PRECISION DESIGN Drafting, Inc.**  
Phone: (937) 623-6449 www.pdn.com  
11768 Atwood Rd., Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS, WHEN CONSIDERED IN CONJUNCTION WITH THE LOCAL, STATE AND FEDERAL REQUIREMENTS FOR THE PROJECT, SHALL BE USED TO OBTAIN PERMITS AND TO CONSTRUCT THE PROJECT. THESE PLANS AND SPECIFICATIONS SHALL BE USED TO OBTAIN PERMITS AND TO CONSTRUCT THE PROJECT. THESE PLANS AND SPECIFICATIONS SHALL BE USED TO OBTAIN PERMITS AND TO CONSTRUCT THE PROJECT.

NO.	DATE	DESCRIPTION	BY
1	4/4/15	SUBMITTAL	AV
2	1/21/16	TITLE REPORT	DG
3	3/30/16	CLIENT COMMENTS	RG

SITE INFORMATION:

**CAPITOLA MALL SC2**

4400 CAPITOLA ROAD,  
CAPITOLA, CA 95010  
SANTA CRUZ COUNTY

SEAL:

SHEET TITLE:

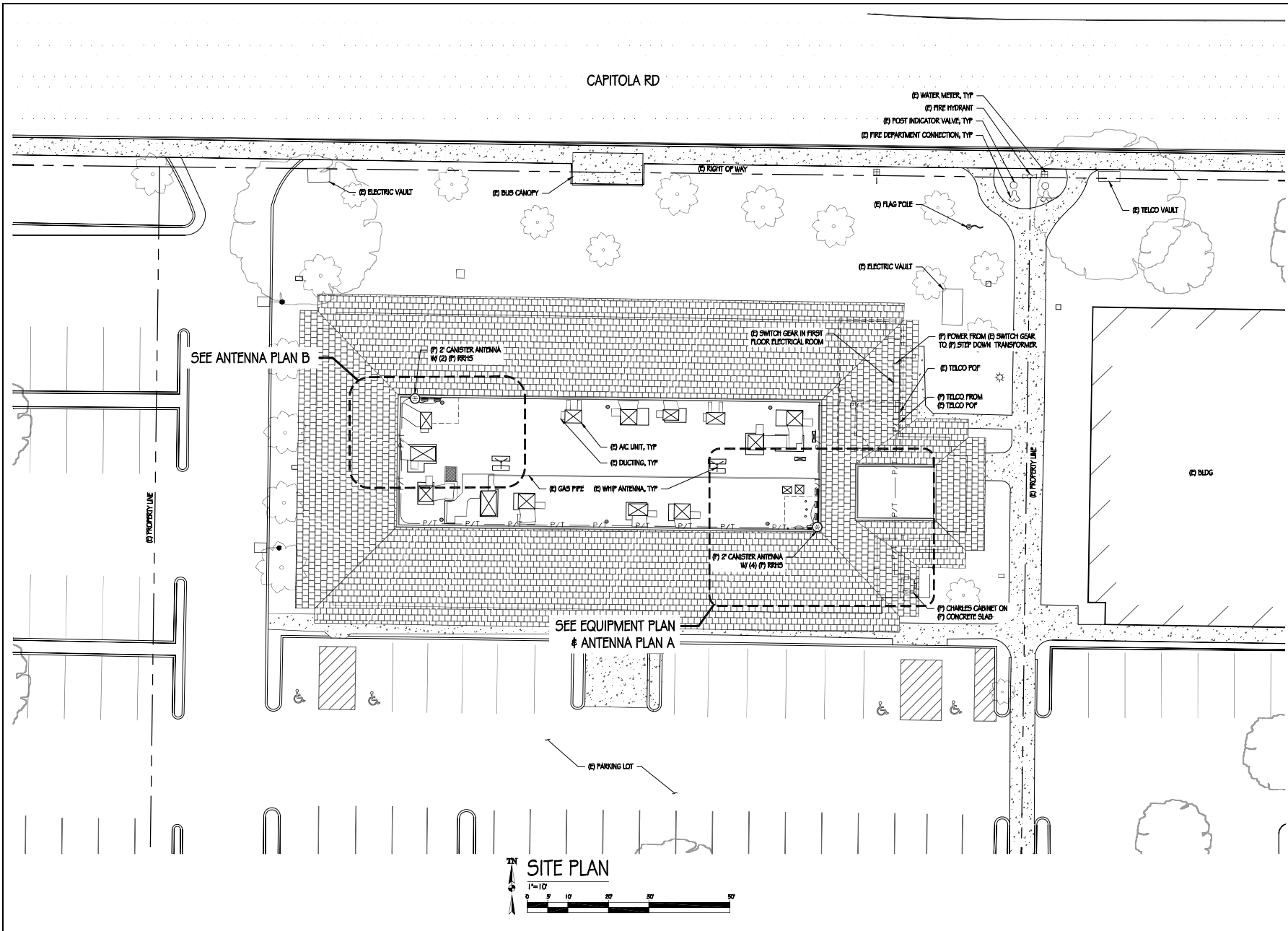
**TOPOGRAPHIC SURVEY**

SHEET NUMBER:

**C1**

REV:

**2**



**verizon**wireless

VERIZON WIRELESS  
2765 MITCHELL DRIVE, SUITE 40  
WALNUT CREEK, CA 94596

**PRECISION DESIGN**  
**Drafting, Inc.**  
Phone: (530) 552-5246 www.pdinc.com  
11708 Arwood Rd. Suite 20 Auburn, CA 95603

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AUBURN, CA 95603  
(708) 550-7777  
WWW.NEXIUS.COM



**CAPITOLA MALL SC2**

4400 CAPITOLA RD  
CAPITOLA, CA 95010

**ISSUE STATUS**

DATE	DESCRIPTION
04/29/15	20 90%
07/11/15	20 100%

DRAWN BY: G. WATKINS

CHECKED BY: T. LAWRENCE / M. WESSE

APPROVED BY: D. MACCOMB

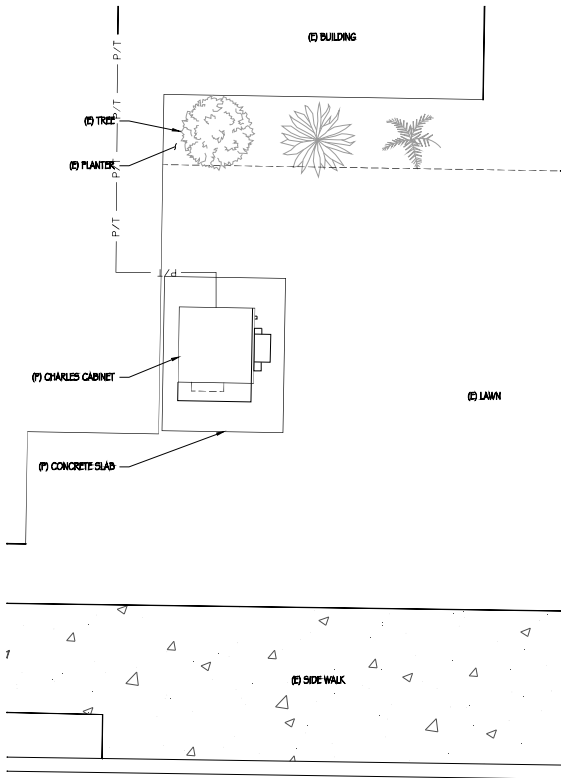
DATE: 07/11/15

SHEET TITLE:

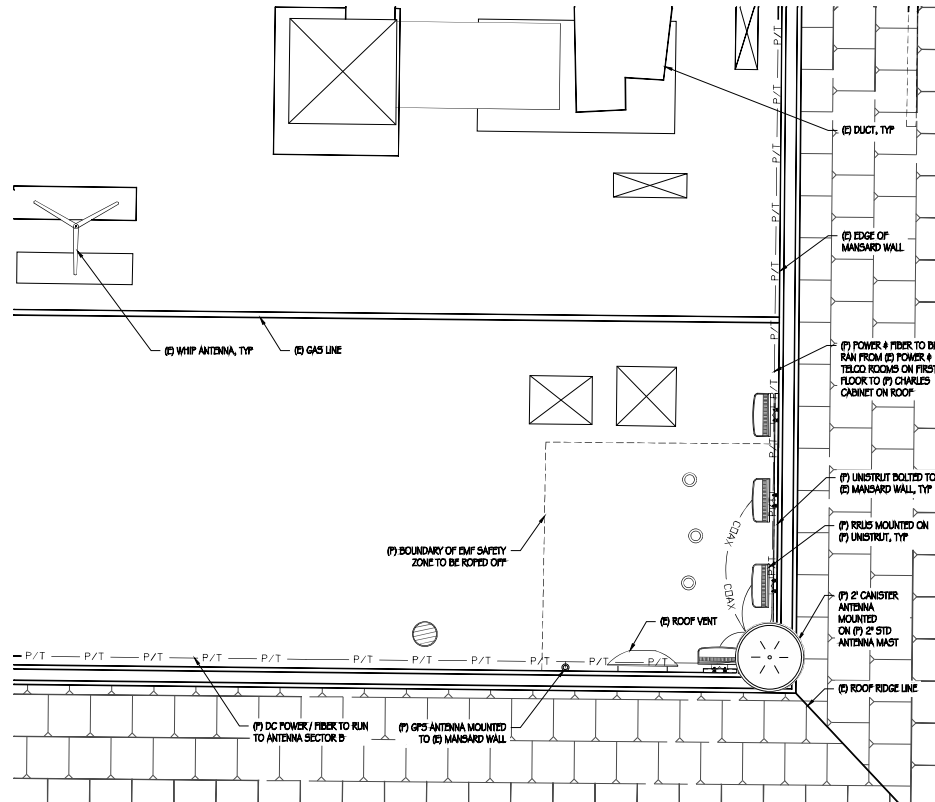
SITE PLAN

SHEET NUMBER

A-1



EQUIPMENT PLAN  
1/2"=1'



ANTENNA PLAN A  
1/2"=1'

**verizon** wireless

VERIZON WIRELESS  
2765 MITCHELL DRIVE, SUITE #9  
WALNUT CREEK, CA 94596

**PRECISION DESIGN**  
Drafting, Inc.

Phone: (530) 553-5546 www.pdhd.com  
11708 Inwood Rd, Suite 20 Auburn, CA 96903

**NEXIUS**

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AUBURN, CA 96903  
(708) 550-7777  
WWW.NEXIUS.COM



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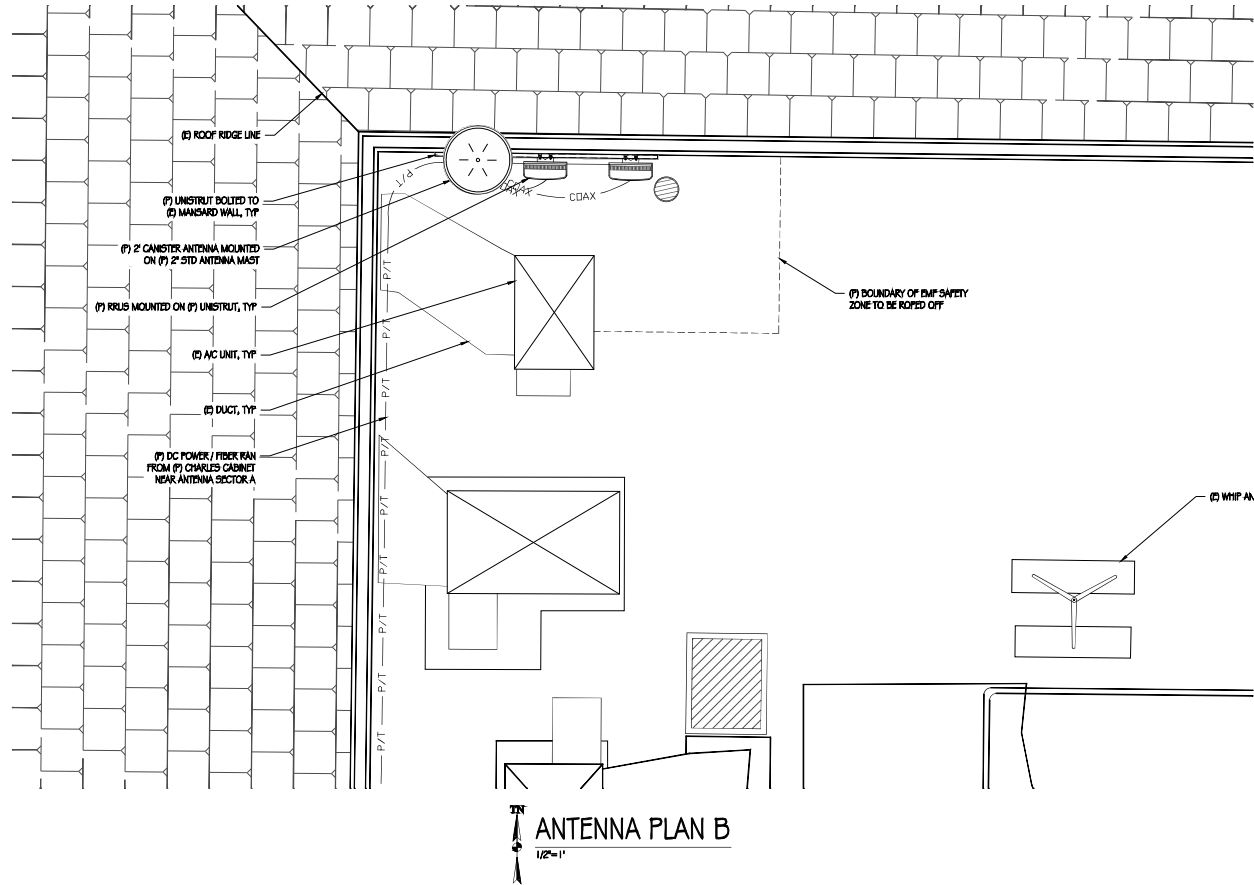
EQUIPMENT PLAN &  
ANTENNA PLAN A

SHEET NUMBER

A-2

Attachment: Verizon Project Plans and Information (1540 : Verizon Facility at 4400 Capitola Road)





**verizon**wireless

VERIZON WIRELESS  
2765 MITCHELL DRIVE, SUITE #9  
WALNUT CREEK, CA 94596

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Drafting, INC.

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CHECKED BY: T. LAWRENCE / M. WESSE

APPROVED BY: B. McCOMB

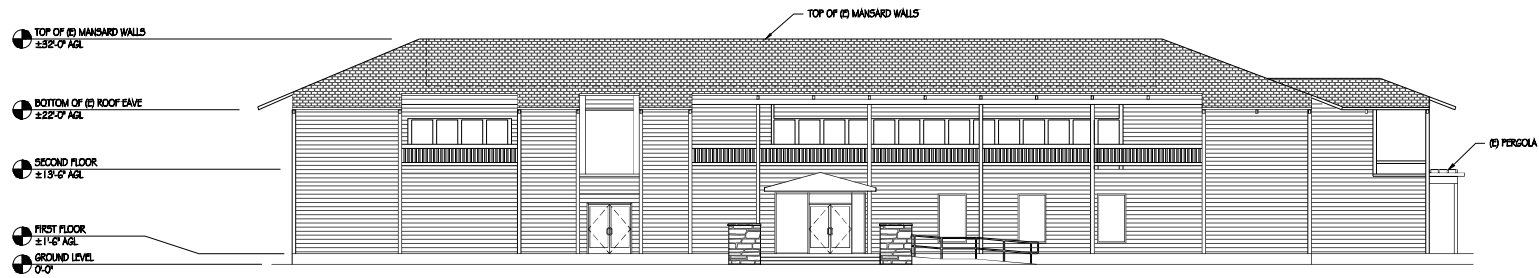
DATE: 07/11/15

SHEET TITLE:

ANTENNA PLAN B

SHEET NUMBER

A-3



EXISTING SOUTH ELEVATION  
1/8" = 1'-0"



NEW SOUTH ELEVATION  
1/8" = 1'-0"  
NOTE: ALL EQUIPMENT TO BE PAINTED TO MATCH (2) BUILDING

**verizon**wireless

VERIZON WIRELESS  
2785 MITCHELL DRIVE, SUITE #0  
WALNUT CREEK, CA 94598

**PRECISION DESIGN**  
Drafting, Inc.  
Phone: (530) 825-5456 www.pdai.com  
11718 Arwood Rd., Suite 20 Auburn, CA 96903

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1301 CENTRAL EXPRESSWAY SOUTH  
ALBUQUERQUE, NM 87105  
ALBU, NM 87105  
(703) 650-7777  
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**CAPITOLA MALL SC2**

4400 CAPITOLA RD  
CAPITOLA, CA 95010

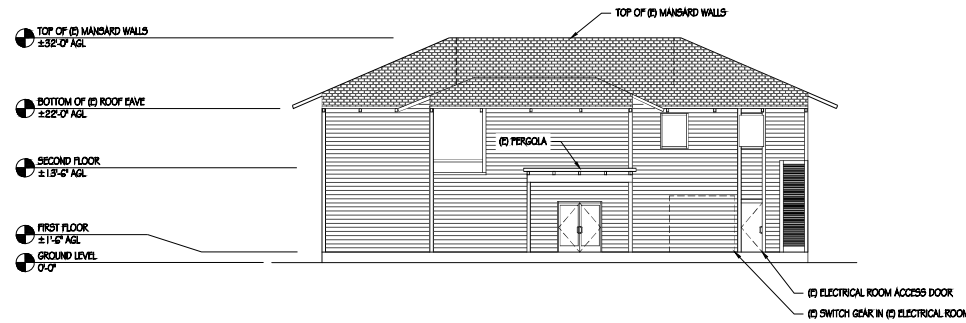
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Δ	DATE	DESCRIPTION	
	04/09/15	2D 90%	
	07/11/15	2D 100%	

DRAWN BY: G. WATKINS  
CHECKED BY: T. LAWRENCE / M. WEBB  
APPROVED BY: B. MACCOMB  
DATE: 07/11/15  
SHEET TITLE:

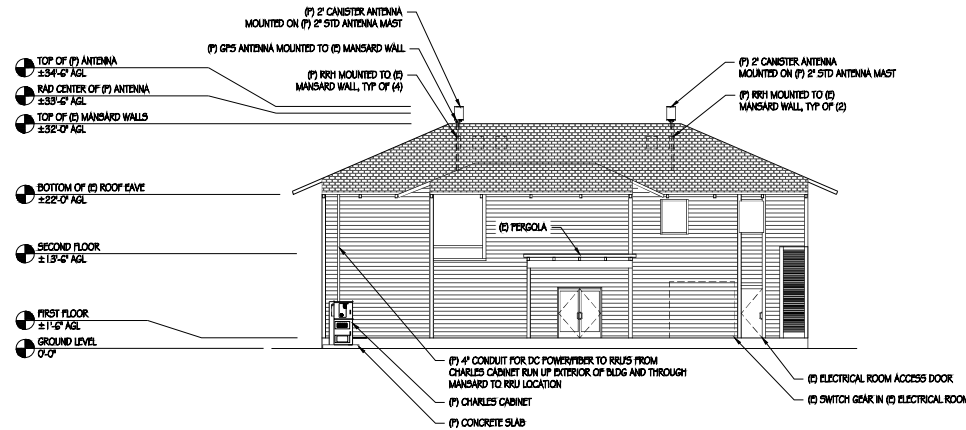
ELEVATIONS

SHEET NUMBER

A-4



EXISTING EAST ELEVATION  
1/8" = 1'-0"



NEW EAST ELEVATION  
1/8" = 1'-0"  
NOTE: ALL EQUIPMENT TO BE PAINTED TO MATCH (2) BUILDING

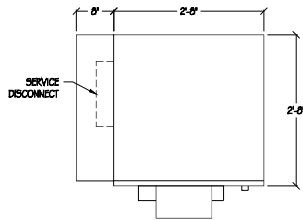


CAPITOLA MALL SC2  
4400 CAPITOLA RD  
CAPITOLA, CA 95010

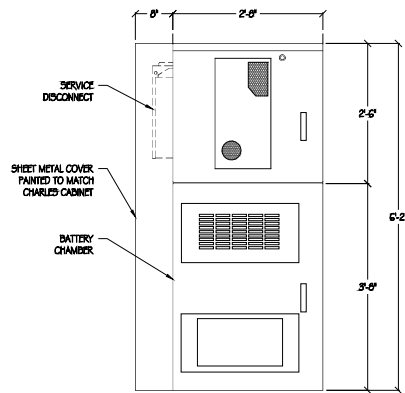
ISSUE STATUS		
△	DATE	DESCRIPTION
	04/29/15	20 30%
	07/11/15	20 100%

DRAWN BY: G. WATKINS  
CHECKED BY: T. LAWRENCE / M. WESSE  
APPROVED BY: B. MCCOMB  
DATE: 07/11/15  
SHEET TITLE:

ELEVATIONS  
SHEET NUMBER  
A-5



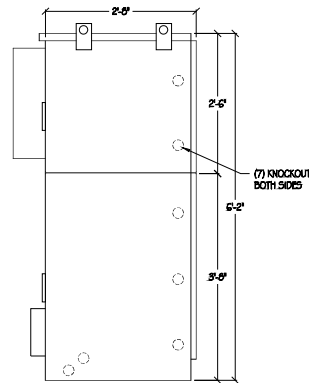
PLAN VIEW



FRONT VIEW

**CHARLES UNIVERSAL BROADBAND ENCLOSURE (CUBE) - 554C215DB3**

TOTAL WEIGHT: 740 LBS (EMPTY), 1611 LBS (W/ BATTERIES)  
 DIMENSIONS: 73X52X32" (W/ OUT COVER)  
 EQUIP CHAMBER: 50X32X32"  
 BATT CHAMBER: 44X32X32"  
 THERMAL SPECS: 750W 48VDC RX  
 GE INFINITY 5, 48V, 200A  
 POWER: NE546-23-AC1-F54-DC1E

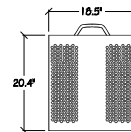


SIDE VIEW W/ OUT COVER

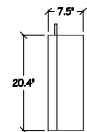
1 CABINET DETAIL  
1"=1'



TOP VIEW



FRONT VIEW



SIDE VIEW

**ERICSSON RRUS-12**

COLOR: GREY  
 TOTAL WEIGHT: 11-55 LB  
 DIMENSIONS: 20.4" TALL X 16.5" WIDE X 7.5" DEEP

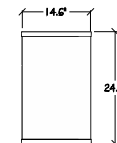
2 RRUS-12 DETAIL  
1"=1'

**AMPHENOL 696-960 / 1710-2170 MHZ**

WIND AREA: 2.40 SQ FT  
 WEIGHT: 25 LBS  
 DIMENSIONS: Ø14.6" X 24" TALL  
 CONNECTOR: 12 PORTS / MINI DIN / FEMALE / BOTTOM



TOP VIEW



FRONT VIEW

3 ANTENNA DETAIL  
1/2"=1'



VERIZON WIRELESS  
 2765 MITCHELL DRIVE, SUITE #9  
 WAUKEGAN, IL 60085



PRECISION DESIGN  
 Drafting, Inc.  
 Phone: (530) 523-5246 www.pdtd.com  
 11708 Arwood Rd, Suite 20 Auburn, CA 95603



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 AUBURN, CA 95603  
 (916) 550-7777  
 WWW.NEXUS.COM



**CAPITOLA MALL SC2**

4400 CAPITOLA RD  
 CAPITOLA, CA 95010

ISSUE STATUS		
Δ	DATE	DESCRIPTION
	04/29/15	2D 90%
	07/11/15	2D 100%

DRAWN BY: G. WATKINS  
 CHECKED BY: T. LAWRENCE / M. WESSE  
 APPROVED BY: B. MCCOMB  
 DATE: 07/11/15  
 SHEET TITLE:

**DETAILS**

SHEET NUMBER

A-6



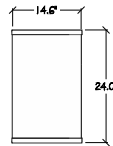
## AMPHENOL 696-960 / 1710-2170 MHZ

WIND AREA  
WEIGHT  
DIMENSIONS:  
CONNECTOR:

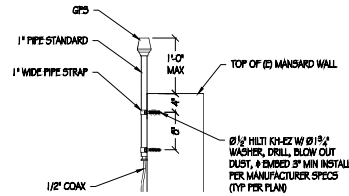
2.40 SQ FT  
25 LBS  
Ø14.6" X 24" TALL  
1/2 PORTS / MIN DIN / FEMALE / BOTTOM



TOP VIEW



FRONT VIEW

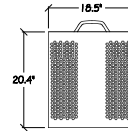
① ANTENNA DETAIL  
1/2" = 1'② GPS ANTENNA DETAIL  
1/2" = 1'

## ERICSSON RRUS-12

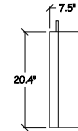
COLOR: GRAY  
TOTAL WEIGHT: +/- 50 LB  
DIMENSIONS: 20.4" TALL X 18.5" WIDE X 7.5" DEEP



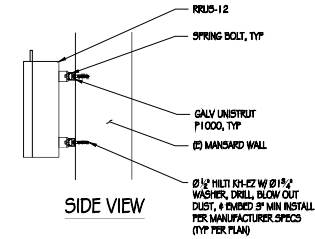
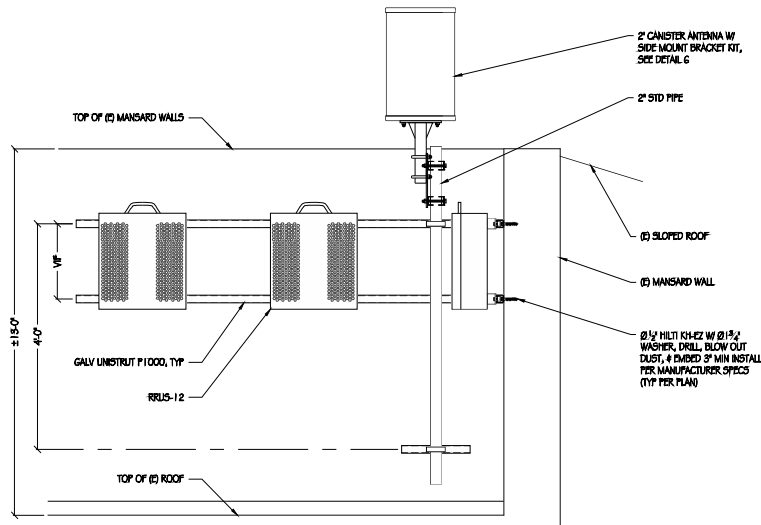
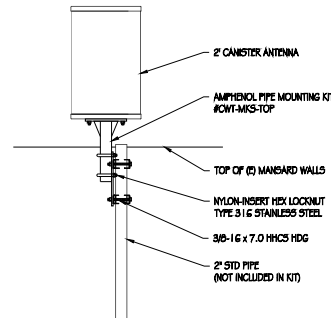
TOP VIEW



FRONT VIEW

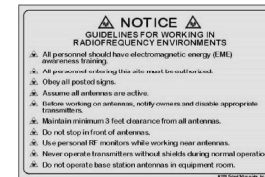


SIDE VIEW

③ RRUS-12 DETAIL  
1/2" = 1'④ RRUS MOUNTING DETAIL  
1/2" = 1'⑤ UNISTRUT MOUNTING DETAIL  
1/2" = 1'-0"⑥ CANISTER MOUNTING DETAIL  
1/2" = 1'-0"

## NOTES:

1. NEW VINYL SIGN TO BE PROVIDED BY VERIZON WIRELESS AND ATTACHED 3' BELOW EXISTING ANTENNAS. SIGN TO BE YELLOW

⑦ NOTICE SIGNAGE  
1/2" = 1'

**verizon**wireless

VERIZON WIRELESS  
2765 MITCHELL DRIVE, SUITE #9  
WALNUT CREEK, CA 94596

**PRECISION DESIGN**  
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**CAPITOLA MALL SC2**

4400 CAPITOLA RD  
CAPITOLA, CA 95010

## ISSUE STATUS

△	DATE	DESCRIPTION
	04/29/15	2D 90%
	07/11/15	2D 100%

DRAWN BY: G. WATKINS

CHECKED BY: T. LAWRENCE / M. WESSE

APPROVED BY: D. MCCOMB

DATE: 07/11/15

SHEET TITLE:

DETAILS

SHEET NUMBER

A-7





## POWER AND TELCO NOTES:

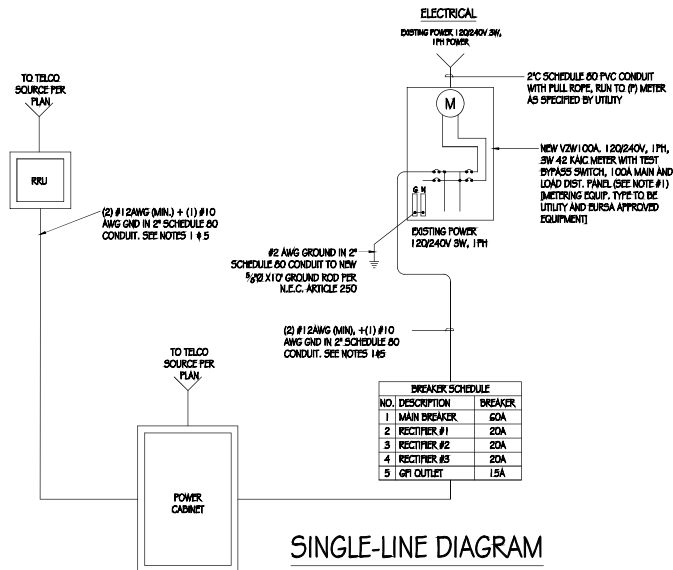
1. POWER AND TELCO POINTS OF CONNECTION AND ANY PAYMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE FOR PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER, TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

## NOTES:

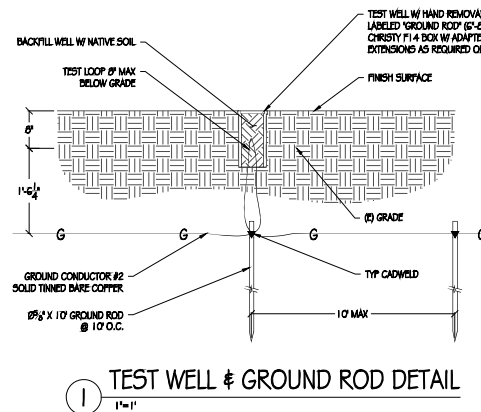
1. SUBCONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS UTILITY CABINET.
2. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
3. SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
4. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
5. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.

## GENERAL ELECTRICAL NOTES:

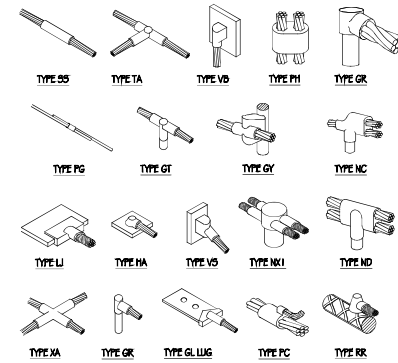
1. PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
2. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE 24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MARSHALL. ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY. PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTIRE INSTALLATION & UNIT COMPLETION OF WORK. ERECT & MAINTAIN APPROVED & SUITABLE BARRIERS, PROTECTIVE DEVICES & WARNING SIGNS, BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS.
4. COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.
5. ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.
6. FINALIZE ALL ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETAILS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCRUED CHARGES WITH LOCAL POWER COMPANY, VERIFY LOCATION FOR FACILITIES & DETAILS WITH POWER UTILITY. IN ADDITION TO THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, WORK SHALL COMPLY WITH CONSTRUCTION STANDARDS & SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES.
7. ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE THINW CONDUCTORS LARGER AND #6 AWG MAY BE TYPE THINW OR THINW.
8. PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATER TIGHT.
9. UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, SIGNAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MOTOR STARTERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS, SWITCHES AND OTHER OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R AND/OR UL LISTED FOR WET ENVIRONMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENSURING A 5 OHM OR LESS GROUNDING PATH, ADDITIONAL GROUND RODS AND/OR CHEMICAL ROD SYSTEM SHALL BE USED TO ACHIEVE THIS REQUIREMENT IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.



SINGLE-LINE DIAGRAM

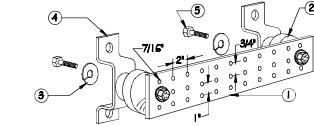


TEST WELL &amp; GROUND ROD DETAIL



## EXOTHERMIC WELD DETAILS

2 1"=1'

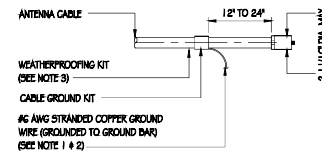


## NOTES:

1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-5 OR APPROVED EQUAL
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT. NO. A-6056 OR APPROVED EQUAL
5. 5/8" X 1 1/4" INCHES BOLTS, NEWTON INSTRUMENT CO., CAT. NO. 3012-1 OR APPROVED EQUAL
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

## GROUND BAR DETAIL

3 1"=1'



## NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

## GND KIT DETAIL

4 1"=1'

**verizon** wireless

VERIZON WIRELESS  
2765 MITCHELL DRIVE, SUITE #9  
WALNUT CREEK, CA 94596

**PRECISION DESIGN**  
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Phone: (530) 925-5246 www.pdhd.com  
11708 Arwood Rd. Suite 20 Auburn, CA 96903

VERIZON WIRELESS  
2765 MITCHELL DRIVE, SUITE #9  
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**NEXIUS**  
1901 CENTRAL EXPRESSWAY SOUTH  
AUBURN, CA 96903  
(708) 550-7777  
WWW.NEXIUS.COM

**CAPITOLA MALL SC2**  
4400 CAPITOLA RD  
CAPITOLA, CA 95010

**ISSUE STATUS**

Δ	DATE	DESCRIPTION
	04/29/15	2D 90%
	07/11/15	2D 100%

DRAWN BY: G. WATKINS

CHECKED BY: T. LAWRENCE / M. WESSE

APPROVED BY: B. MCCOMB

DATE: 07/11/15

SHEET TITLE:

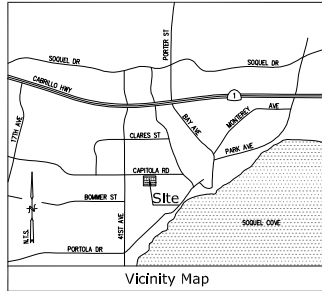
ELECTRICAL SINGLE-LINE

DIAGRAM & DETAILS

SHEET NUMBER

E-3





Vicinity Map

### Title Report

PREPARED BY: U.S. TITLE SOLUTIONS  
ORDER NO.: 03371-04-1000-0000  
DATED: MAY 21, 2015

### Legal Description

PARCEL A AS THE SAME IS SHOWN UPON THAT CERTAIN PARCEL MAP FILED FOR RECORD JANUARY 31, 1990 IN VOLUME 50 OF PARCEL MAPS, PAGE 58, SANTA CRUZ COUNTY RECORDS.

### Assessor's Parcel No.

034-111-053

### Easements

- EASEMENT AGREEMENT BY CAPITOLA OFFICE PLAZA, LTD., A CALIFORNIA LIMITED PARTNERSHIP TO LLOYD, A MARSH, DATED 3/8/1984, RECORDED 9/17/1984 IN BOOK 3766 PAGE 853 IN INSTRUMENT NO. 44473. (PLOTTED HEREON)
- GRANT OF EASEMENT BY REDWOOD RETREAT COMPANY, A GENERAL PARTNERSHIP TO PACIFIC BELL, A CORPORATION, DATED 11/15/1985 RECORDED 11/27/1985 IN BOOK 3813 PAGE 845 IN INSTRUMENT NO. 008935. (PLOTTED HEREON)
- EASEMENT BY REDWOOD RETREAT INVESTMENT COMPANY, A PARTNERSHIP TO PACIFIC GAS AND ELECTRIC COMPANY, A CALIFORNIA CORPORATION, DATED 5/27/1985 RECORDED 5/29/1985 IN BOOK 3848 PAGE 370 IN INSTRUMENT NO. 008985. (PLOTTED HEREON)
- SATISFACTION OF EASEMENT AGREEMENT, DATED 3/8/1987 RECORDED 3/16/1987 IN BOOK 4127 PAGE 366 IN INSTRUMENT NO. 015853. (PLOTTED HEREON)
- 15. GRANT OF PARKING EASEMENT BY REDWOOD RETREAT INVESTMENT COMPANY, A CALIFORNIA GENERAL PARTNERSHIP TO CALIFORNIA STATE AUTOMOBILE ASSOCIATION, A CALIFORNIA CORPORATION, DATED 11/27/1985 RECORDED 7/10/1990 IN BOOK 4700 PAGE 422 IN INSTRUMENT NO. 40257. (PLOTTED HEREON)

### Access Easement/Lease Area

TO BE DETERMINED

### Geographic Coordinates at Center of Proposed Structures

1983 DATUM: LATITUDE: 36° 58' 24.31"N LONGITUDE: 121° 57' 39.00"W  
ELEVATION = 81.8 FEET ABOVE MEAN SEA LEVEL

CERTIFICATION:  
THE LATITUDE AND LONGITUDE SHOWN ABOVE ARE ACCURATE TO WITHIN 1/100 FEET HORIZONTALLY AND THAT THE ELEVATIONS SHOWN ABOVE ARE ACCURATE TO WITHIN 1/100 FEET VERTICALLY. THE HORIZONTAL DATUM (GEODETIC COORDINATES) IS IN TERMS OF THE NORTH AMERICAN DATUM OF 1983 (NAD 83) AND IS EXPRESSED IN DEGREES (°), MINUTES (') AND SECONDS ("). TO THE NEAREST HUNDREDTH OF A SECOND, THE VERTICAL DATUM (ELEVATION) IS IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND IS DETERMINED TO THE NEAREST TENTH OF A FOOT.

### Basis of Bearings

THE STATE PLANE COORDINATE SYSTEM OF 1983 (NAD 83), CALIFORNIA ZONE 3.

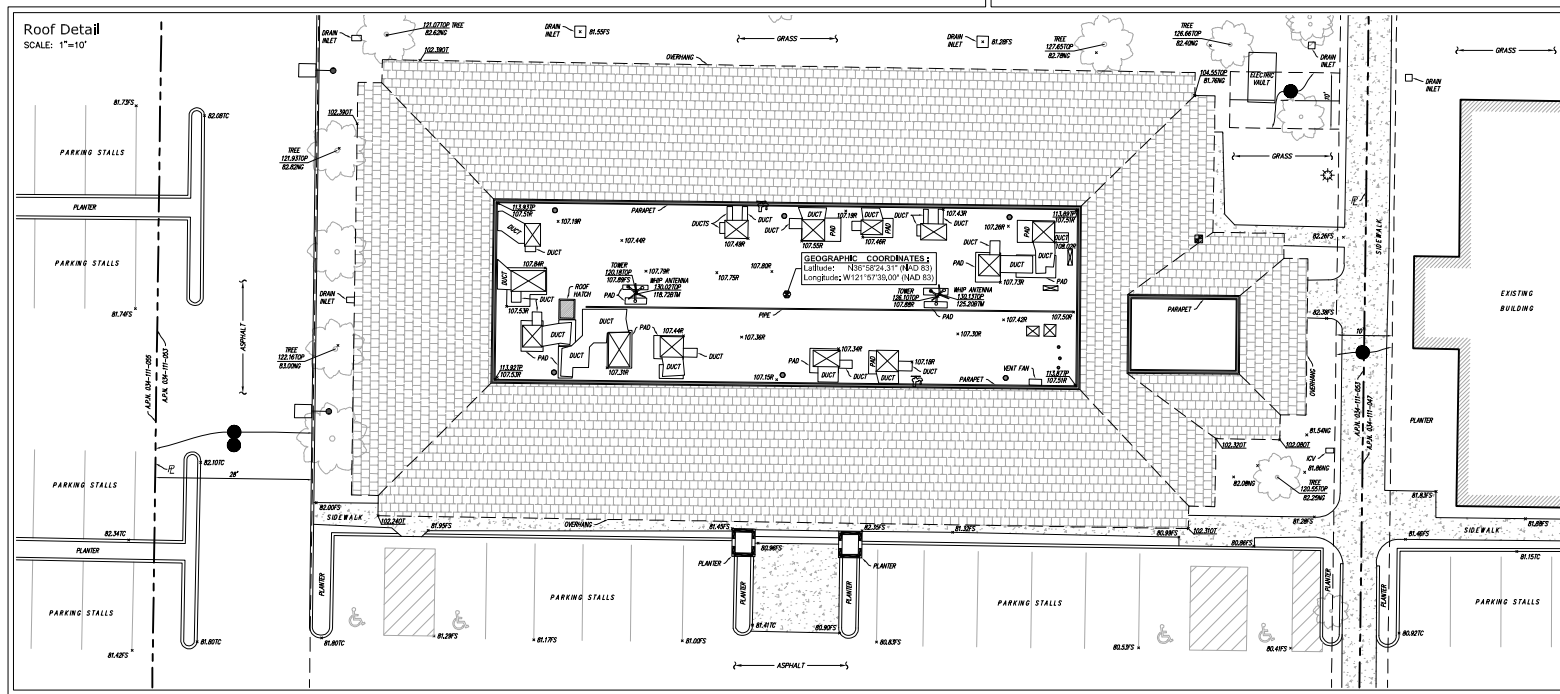
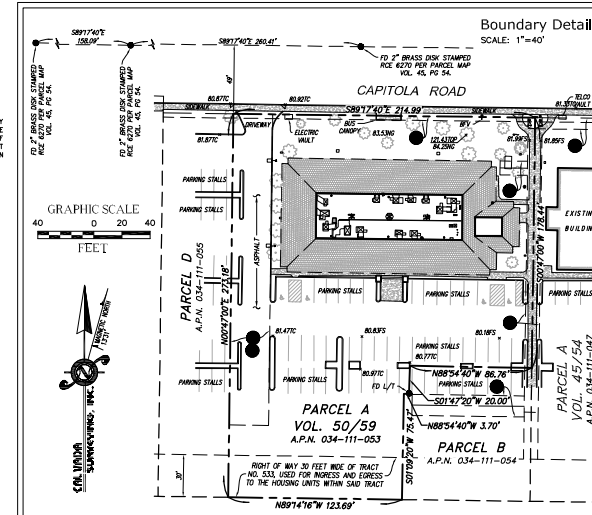
### Bench Mark

THE CALIFORNIA SPATIAL REFERENCE CENTER CODES "P212", ELEVATION = 230.71 FEET (NAVD 88).

### Date of Survey

MARCH 26, 2015

Legend	
AC-UNIT	NATURAL GROUND
BFV	BACKFLOW VALVE
BL	BLACK WALL
CL	CENTER LINE
CO	CONCRETE PAVEMENT
FS	FRESH SURFACE
FC	FIRE DEPARTMENT CONNECTION
FO	FIRE HYDRANT
FL	FLUID PILE
FO	FOUND MONUMENT
HC	HANDICAP
ICV	IRREGATE CONTROL VALVE
LC	LATITUDE-LONGITUDE COORDINATE
LI	LIGHT
NO	POST INDICATOR VALVE
OT	OVERHANG TOP
R	ROOF
RD	ROAD
TC	TOP OF CURB
TP	TOP OF PARAPET
TS	TOP OF STRUCTURE
W	WENT
WF	WATER FAUCET
WM	WATER METER
WA	WAMP ANTENNA



PLANS PREPARED BY:  
**CAL VADA SURVEYING, INC.**  
411 Janka Ct., Suite 205, Corona, CA 92880  
Phone: (951) 265-5990 Fax: (951) 265-0746  
Toll Free: 800-CALVADA www.calvada.com  
JOB NO. 15108

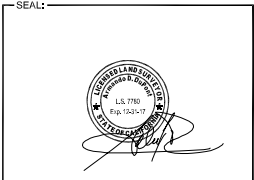
CONSULTING GROUP:  
**PRECISION DESIGN Drafting, Inc.**  
Phone: (951) 825-6449 www.pdrinc.com  
11768 Atwood Rd., Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS ARE PREPARED BY THE ENGINEER OR ARCHITECT, AND ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OR ARCHITECT. THE ENGINEER OR ARCHITECT IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS.

NO.	DATE:	DESCRIPTION:	BY:
	4/4/15	SUBMITTAL	AV
1	1/21/16	TITLE REPORT	DG
2	3/30/16	CLIENT COMMENTS	RG

SITE INFORMATION:  
**CAPITOLA MALL SC2**

4400 CAPITOLA ROAD,  
CAPITOLA, CA 95010  
SANTA CRUZ COUNTY

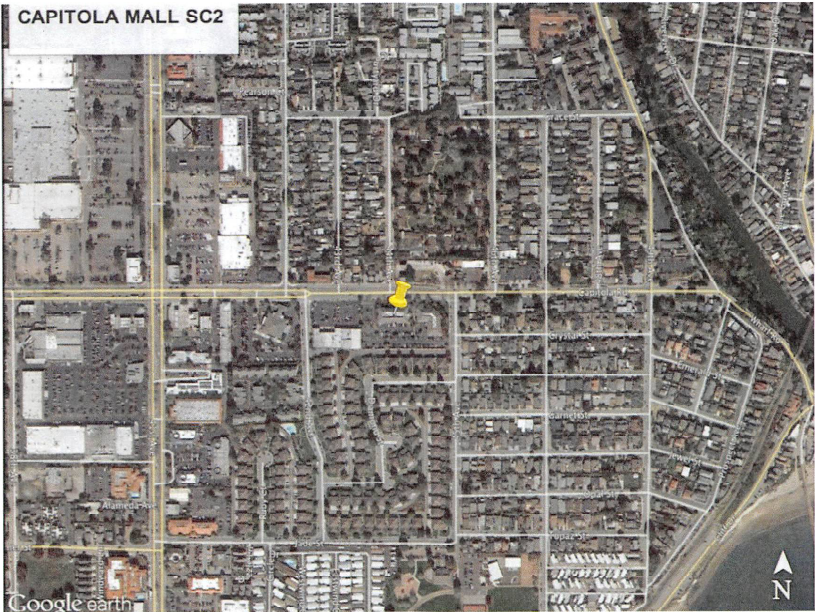


SHEET TITLE:  
**TOPOGRAPHIC SURVEY**

SHEET NUMBER:  
**C1**

REV:  
**2**

OVERVIEW



ADL Simulations, Inc. ♦ (415) 559-2121 ♦ [adlsimulations@gmail.com](mailto:adlsimulations@gmail.com)



CAPITOLA MALL SC2  
4400 Capitola Rd.  
Capitola, CA 95010

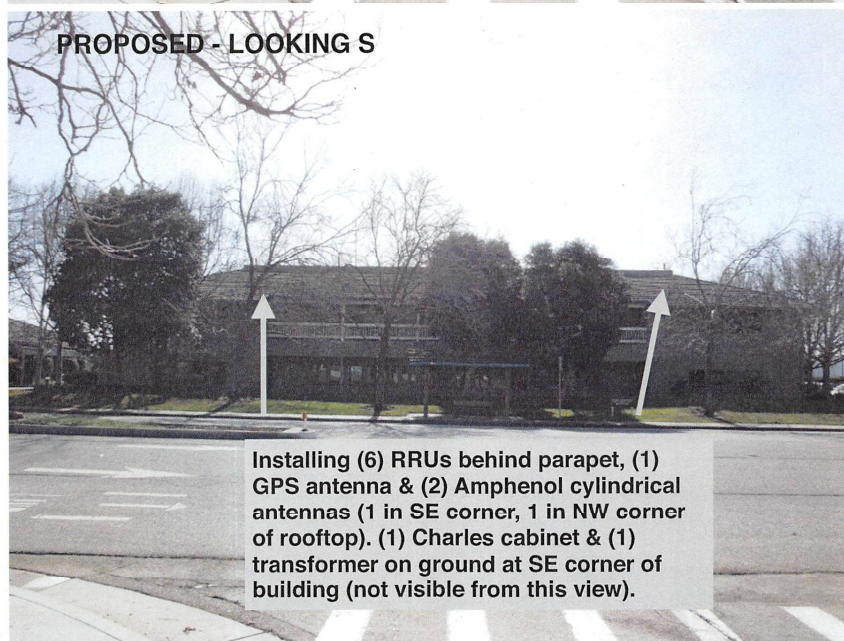




EXISTING - LOOKING S



PROPOSED - LOOKING S



Installing (6) RRUs behind parapet, (1) GPS antenna & (2) Amphenol cylindrical antennas (1 in SE corner, 1 in NW corner of rooftop). (1) Charles cabinet & (1) transformer on ground at SE corner of building (not visible from this view).

ADL Simulations, Inc. ♦ (415) 559-2121 ♦ [adlsimulations@gmail.com](mailto:adlsimulations@gmail.com)



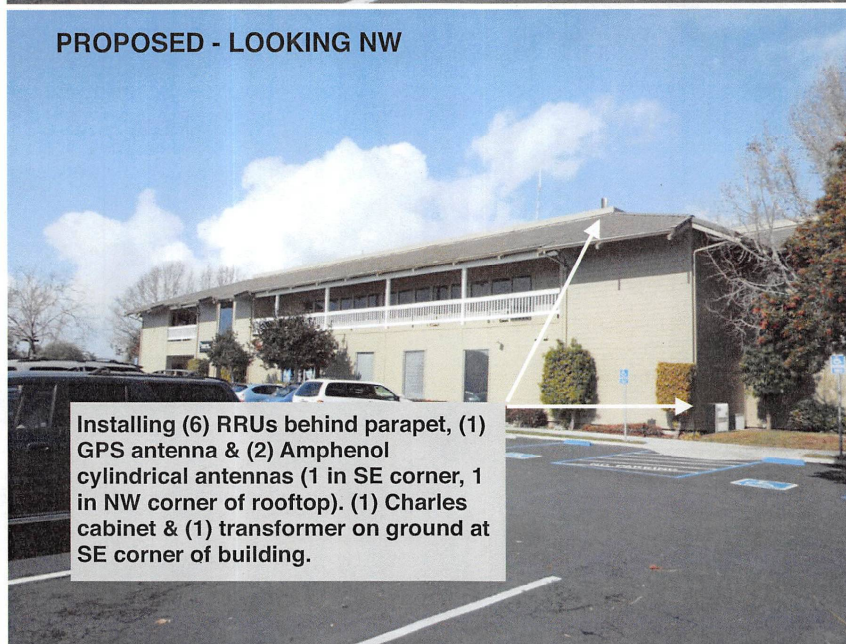
CAPITOLA MALL SC2  
4400 Capitola Rd.  
Capitola, CA 95010



EXISTING - LOOKING NW



PROPOSED - LOOKING NW



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CAPITOLA MALL SC2  
4400 Capitola Rd.  
Capitola, CA 95010





## EXAMPLE INSTALLATION

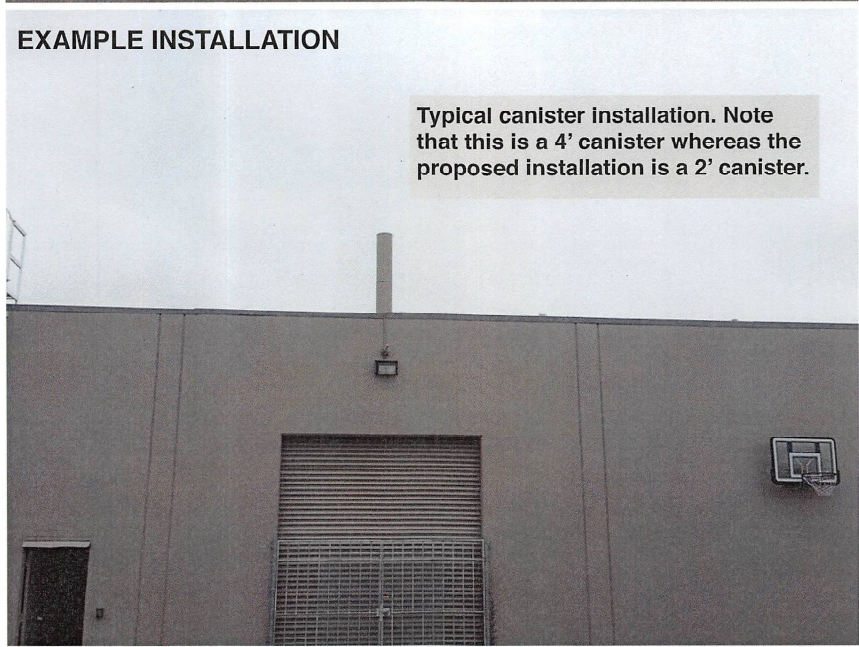
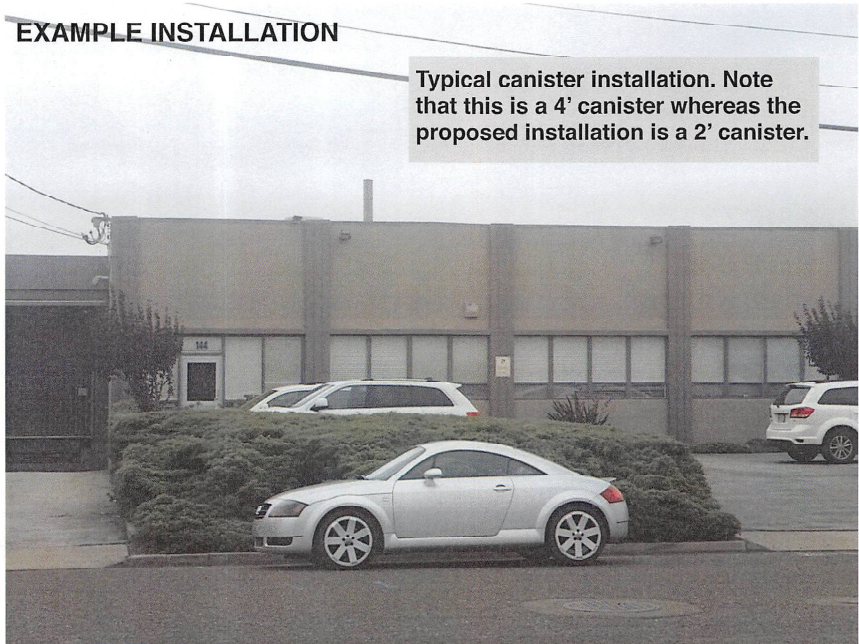


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CAPITOLA MALL SC2  
4400 Capitola Rd.  
Capitola, CA 95010





# ALTERNATIVE SITE ANALYSIS

## Capitola Mall SC2







(A) 36.973483°, -121.960892°



Current Candidate is building located at 4400 Capitola Road. Property owner is Doug Kaplan.



(B)  $36.973951^{\circ}$ ,  $-121.962183^{\circ}$



Managed by CIF properties.  
Difficult to stealth antennas due  
to shape of roof.

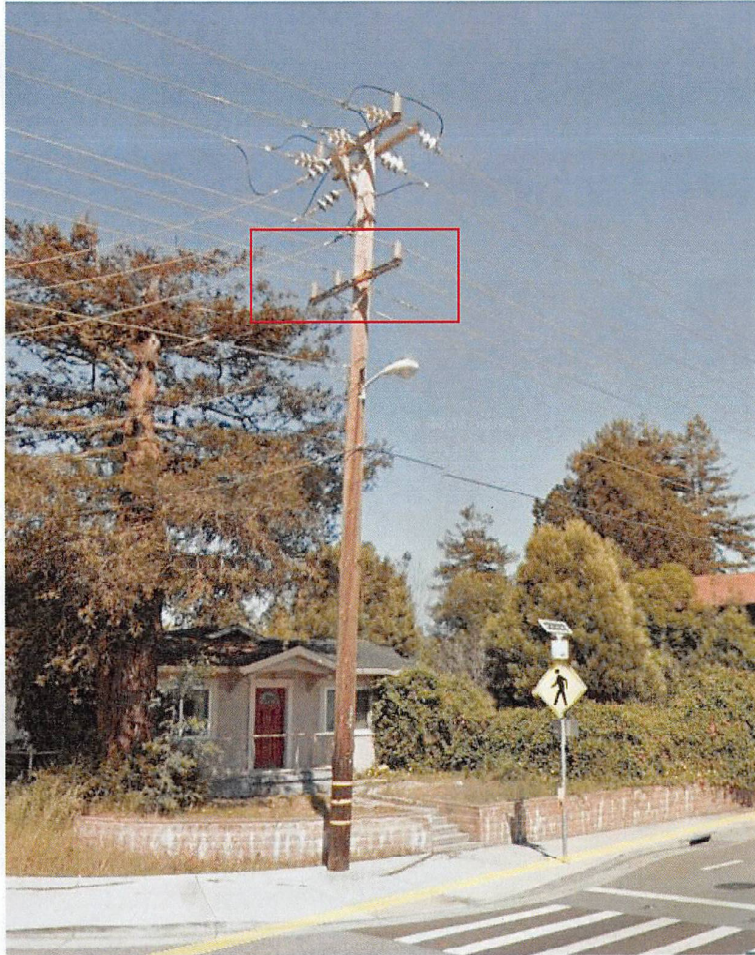
(C) 36.973405°, -121.960163°



Managed by CIF  
properties. Unable to  
negotiate agreement.

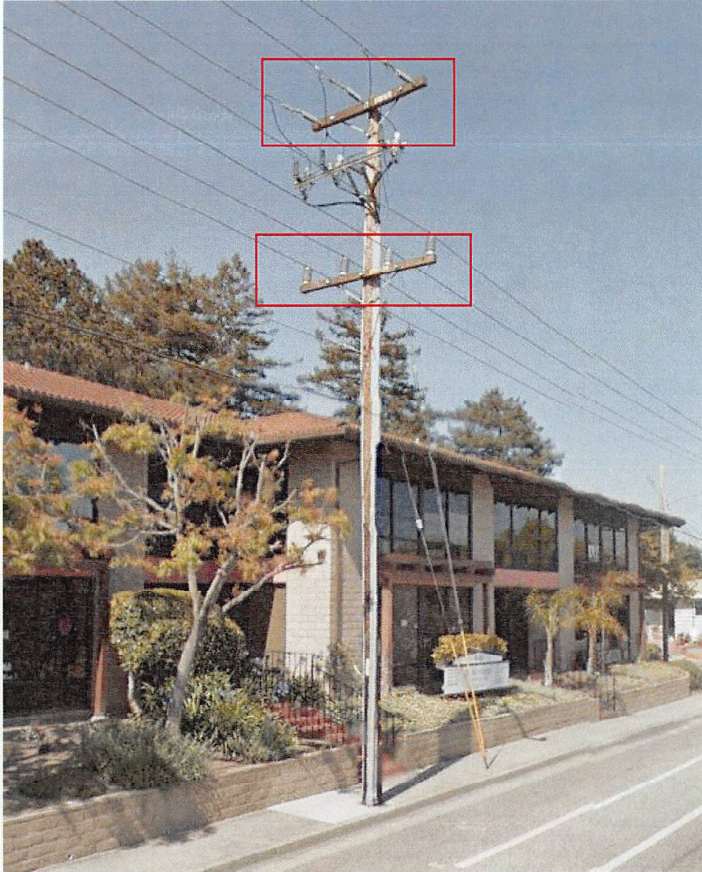


(D) 36.973842°, -121.962573°



PG&E pole with a primary riser present. Per GO95 guidelines, we can not legally place our equipment in the 33% climbing space, which would impact the existing use of the 'power' distribution for the neighborhood.

(E) 36.973847°, -121.962222°



PG&E pole with a primary riser present. Per GO95 guidelines, we can not legally place our equipment in the 33% climbing space, which would impact the existing use of the 'power' distribution for the neighborhood.



(F) 36.973616°, -121.961353°



PG&E pole with a primary riser present. Per GO95 guidelines, we can not legally place our equipment in the 33% climbing space, which would impact the existing use of the 'power' distribution for the neighborhood.



(G) 36.973146°, -121.961481°



Single story building -  
determined didn't have  
acceptable height.

**Safty, Ryan (rsafty@ci.capitola.ca.us)**

---

**From:** Jason Osborne <jason@beacondev.net>  
**Sent:** Tuesday, July 26, 2016 2:06 PM  
**To:** Safty, Ryan (rsafty@ci.capitola.ca.us)  
**Cc:** Jason Osborne  
**Subject:** Re: 4400 Cap Rd - Verizon  
**Attachments:** Capitola Mall SC2 Capacity Coverage Justification.pptx

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Ryan

It appears the "proposed" did not get into this document. Here it is in the original justification package.

The reason we are going with small cells in this area is to better distribute the cellular traffic. The locations here are low and that is better suited to a small cell plan. A macro would be a tall building or stand alone tower, and there are fewer areas suited for these large installations. In fact, city jurisdictions have been asking for smaller installations for a long time now, so we see this as satisfying both needs.

Concerning the Mall and BofA, We have a site directly south of the mall serving the SW corner of the Mall. For the Mall itself, we have several rings to address that. We have a ring on the NE corner of the Mall and that should take care of the Mall pretty well. We also have a small cell ring on the of Capitola and 41<sup>st</sup> St that will cover BofA pretty well. This site is for the area east of the mall. It was named Capitola Mall by a previous engineer just trying to cover the Mall's surrounding areas. I would not have named it Capitola Mall if I were launching the project as I know it causes a little confusion.

Thank you,

Jason F. Osborne  
Beacon Development, LLC  
3 Rovina Lane  
Petaluma, Ca 94952  
(415) 559 2121 mbl  
(415) 358-5766 efax  
Jason@beacondev.net





420 Capitola Avenue  
 Capitola, California 95010  
 Telephone: (831) 475-7300  
 FAX: (831) 479-8879  
 Website: [www.ci.capitola.ca.us](http://www.ci.capitola.ca.us)

October 7, 2015

Rosemary Byrne (Nexus)  
 3 Rovina Lane  
 Petaluma, CA 94952

**Subject: 4400 Capitola Rd – Proposed Wireless Facility**

Dear Ms. Byrne:

The City of Capitola Community Development Department has completed its review of your application for a Conditional Use Permit to install a wireless facility onto an existing building at 4400 Capitola Road and is providing you with the following information as a guide for further processing of your application.

**PROJECT DESCRIPTION**

Below is the project description that staff has developed based on the information submitted in your application package. Please review this project description carefully. If the description is inaccurate or incomplete, please contact your assigned planner immediately to correct the information.

*This is a request for a Conditional Use Permit to allow for a new wireless facility to be built on the roof of an existing building at 4400 Capitola Rd. The proposal involves the construction of six (6) RRU's, one (1) GPS antenna, two (2) cylindrical antennas, and ancillary equipment. The existing commercial/office building is located less than 200 feet from the Planned Development residential facility to the south, and less than 300 feet from the R-1 (Single-Family Residential) zoning district to the east and the RM-LM (Multi-Family Residential) zoning district.*

**APPLICATION COMPLETENESS DETERMINATION**

The Community Development Department has completed its review of your application and has found it incomplete pursuant to Section 65943 of the California Government Code. As detailed herein, additional information and/or corrections need to be submitted in order for staff to continue processing your application.

**Project Issues**

The following project issue was identified during review of your application. This issue will require a substantial redesign of the project or, if not resolved, will result in the Department recommending denial of your project. This issue was identified based upon information presently available to the City and are subject to change upon submittal of further information or studies:

Chapter 17.98.090-B of the Capitola Municipal Code states "in no event can a wireless facility be located within three hundred feet of a residential or public facility zone" (i.e. "Restricted Zones"). The proposed wireless facility is located within the prohibited 300 foot limit.



**Plan Corrections/Additional Information**

The following corrections or additional information are necessary in order to continue processing your application.

1. Make the following additions/corrections to the plans:

a. Submit the following additions to the plans (§17.98.070):

- i. Co-location Statement: at the end of the "Verizon Wireless Statement for the city of Capitola" document, please include a conclusion/summary statement to why co-location was not possible.

Verizon Response: Colocation is 100% possible on this building, as long as other carriers maintain good business practices and maintains proper distance to eliminate RF interference. Considering carriers collocate on tower and rooftops very often, this will not be an issue on this property.

- ii. Financial Guarantee: a financial guarantee for the removal of the facility in the event that its use is abandoned, or its approval is terminated.

Verizon Response: Should the facility not be utilized anymore, Verizon is willing to issue a removal bond as a condition of approval. Please note, the owner of the facility would also require we remove our equipment should it no longer be used.

- iii. Screening Techniques: a statement describing the proposed means of visually screening unsightly public views of facilities, and justification of why the proposed height and visual impact cannot be reduced.

Verizon Response: The proposed design calls for a stealth "can" surrounding the proposed 2' antenna, which will be painted to match the existing roof material. The antenna protrudes exactly 2' 6", which allows the new "antenna" to just extend beyond the roofline to provide cellular coverage. If the new antenna was behind the parapet, it would not work, as the parapet would block the signal from the antenna.

- b. Re-locate the proposed wireless facility so that it is not within 300 feet (§17.98.090-b) or 500 feet (less restrictive of the regulations, §17.98.070) of the following restricted zoning districts:

- i. Single-family residence (R-1)
- ii. Multi-family residence (RM)
- iii. Mobilehome exclusive (MHE)
- iv. Commercial residential (CR)
- v. Parks and open space (P/OS)
- vi. Public facilities (PF)
- vii. Transient rental use overlay (TRO)

OR

2. According to the City Attorney, FCC regulations pertaining to wireless facilities may preempt the City's ability to deny a permit if the applicant can demonstrate that the City's regulations result in an "effective prohibition" of personal services if it prevents a wireless services provider from closing a "significant gap" in coverage. If your application qualifies

for this exception, your application must be updated to show data supporting the significant gap, how the proposed wireless facility would close the gap, coverage of other sites, and evidence of no alternatives. The City would then hire a 3<sup>rd</sup> party specialized in review of wireless systems to review the information provided.

Verizon Response Item#2:

- *Please find the attached letter from Stefano Iachella, Verizon RF Engineer, who describes our significant gap of LTE coverage. Attachment #1*
- *Please also find the attached Title Report*
- *Please find the attached Alternative Sites Analysis (site selection process)*
- *Updated Survey*

**ESTIMATED PROCESSING COST**

At time of application, the City took in the following fees and deposits:

Application Intake fee:	\$535.50
CEQA Exemption	\$106.00
Public Noticing	\$376.00
Planner Cost Recovery Deposit	\$3,000.00

If you pursue the existing location, an additional \$3,500 (roughly) deposit will be required to cover the cost of the 3<sup>rd</sup> party technical review of the data. If the technical analysis costs more, you will be billed for the additional cost. Review of the current application will likely utilize the entire \$3,000 planner cost recovery deposit and the \$3,500 technical review deposit.

If you chose to withdraw the application, the city will refund you the unutilized portion of your deposit (\$2,000), the CEQA exemption (\$106), and the Public Noticing fee (\$376).

Please contact the City and inform us on what you would like to be done with your open application. If you have any questions or require additional information, please contact me at 831.475.7300 or by email at [rsaftey@ci.capitola.ca.us](mailto:rsaftey@ci.capitola.ca.us).

Respectfully,

Ryan Safty  
Assistant Planner



# Verizon Wireless Cell Site Necessity Case – Capitola Mall SC2

Prepared by Verizon Wireless  
RF Engineering





## Introduction:

There are two main drivers that prompt the creation of a cell site project, coverage and/or capacity. Most sites provide a mixture of both, but increasingly some sites are pure capacity.

**Coverage** is the need for expanded service often requested by our customers or emergency services personnel. While this initially meant providing coverage in vehicles, as usage patterns have shifted this now means improving coverage inside of buildings and in residential areas.

**Capacity** is the need for more bandwidth of service. In the simplest form this means a cell site can handle a limited number of voice calls, data mega bites, or total number of active users. When any one of these limits are met the user experience within the coverage area of that cell quickly starts to degrade during the busier hours of use.



**Coverage** is best shown in coverage maps. We use tools that take into account terrain, vegetation, building types, and cell site specifics to show predictions of the existing coverage and what we expect to see with a given cell site. The prediction models make some assumptions such as that the antennas are above the nearby ground clutter (Buildings and vegetation). Once the antennas fall below the ground clutter the models become inaccurate and cannot tell that specific trees or buildings are blocking the RF signal. Due to this, modeling of tower height requirements is frequently not accurate and misleading.



**Capacity** is best shown in graphs of usage growth and projected exhaustion. We utilize sophisticated programs to model current usage growth and project it into the future to determine when additional capacity will be required. The algorithms that predict capacity growth output numbers that are not easily explained. Since it takes 2-3 years on average to complete a cell site project, we have to be looking about 3 years into the future to meet future customer demand.

While data capacity may not seem urgent, beginning in 2014 voice traffic began to migrate from the older 3G voice technology to 4G VoLTE (Voice over IP). This will add additional load to the 4G data network. Since voice is delay sensitive, exhaustion of the data network can cause degradation of voice calls including 911 calls.



### **“Why do you need a site here???”**

A good capacity cell will be close to the user population and have the traffic evenly spread around the site. When we cannot get a location that accomplishes being close to the customers and central to the usage, we end up having to build additional cells to meet the demands for service. Capacity sites are generally lower in height than a coverage site with a full cell needing to be above the ground clutter (buildings, trees, & etc.) and a small cell being one that is at or below the ground clutter.

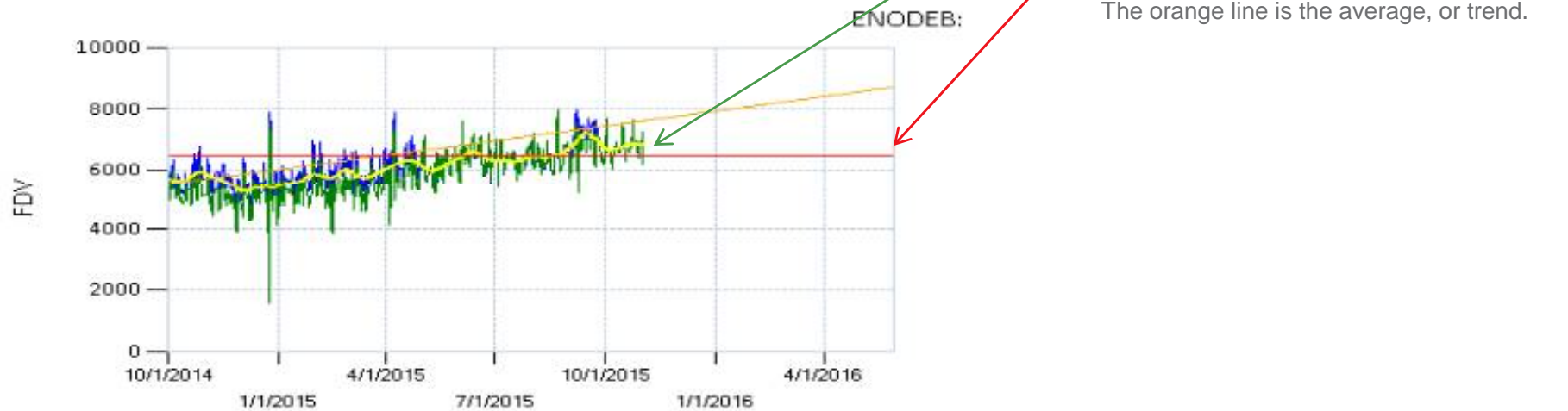
Where our customers use their wireless devices continues to evolve. While we once needed to cover highways and business districts, we are seeing increasing issues with high growth in residential areas. Current statistics show that about 1 of 3 American households no longer have a landline phone. To serve this need we have to increase the cells we have in or very near residential areas.





## Need Case for: Capitola Mall SC2

29. Site: 31271 LIVE\_OAK



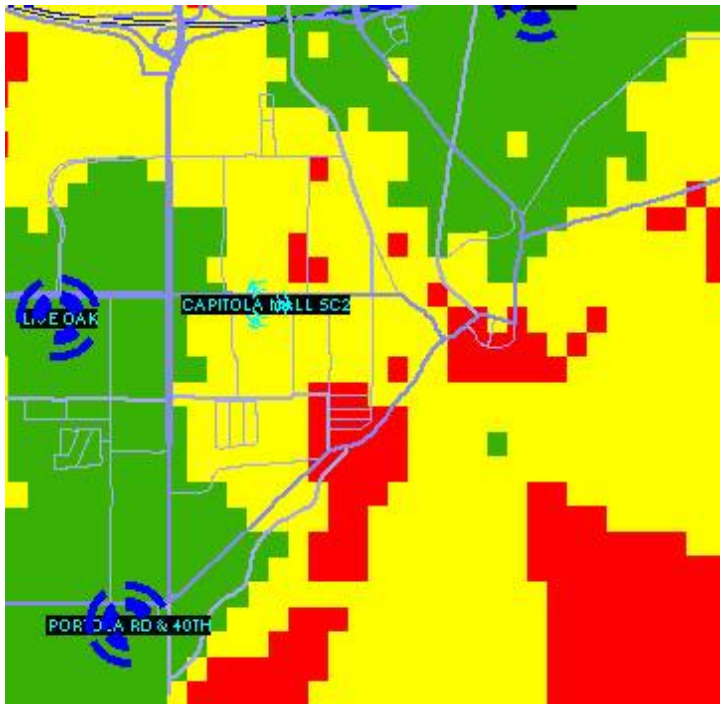
**Summary:** This graph for the Live Oak cell site shows data usage is high and already exhausted.

The graph above shows FDV (Forward Data Volume). **FDV** is the total mega bytes of data flowing through the cell. It can rise just above the red line, then reaches a limit and data delivery is delayed. With voice traffic transitioning from the old 3G technology to the new 4G technology we will see further increases in 4G data traffic. Since the 4G network will be carrying 911 calls and is used extensively in support of police and fire emergency response it is critical that we do not allow service quality to degrade. The Live Oak cell site reached the limit around the middle of the summer this year (2015). Data has become severely limited since then.

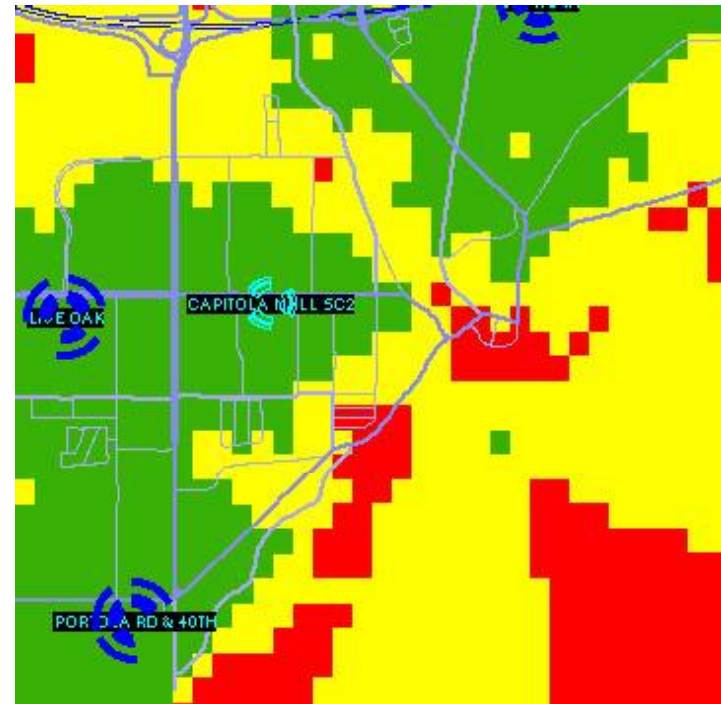


## Need Case for: Capitola Mall SC2

Existing Coverage



Proposed Coverage



The proposed Capitola Mall SC2 site is a capacity site designed to provide data offload for the site Live Oak. The primary objective of this site is to support the rapid growth in 4G data use we are seeing in this area by providing a new small site to serve the library.

**Green**=Good In-Building, **Yellow**= Good In-Vehicle, **Red**=Good on-Street.



2785 Mitchell Drive  
Walnut Creek, CA 94598

June 14, 2016

**To: Capitola Planning Department**

**From: Stefano Iachella, Radio Frequency Design Engineer,  
Verizon Wireless Network Engineering Department**

**Subject: Statement Regarding Proposed Wireless Facility  
4400 Capitola Road**

Verizon Wireless has identified a significant gap in its fourth-generation long-term evolution ("LTE") service in the Capitola Mall commercial area and residential neighborhood to the east. This area currently receives inadequate service from the existing Verizon Wireless Live Oak facility located 0.5 miles west of the proposed facility and the Capitola facility located 0.9 miles northeast.

Accelerated growth in voice and data usage by Verizon Wireless customers has increased the demand on the existing Verizon Wireless network in a manner that compromises network accessibility and reliability. This accelerating growth in demand has led to capacity exhaustion of the nearby Verizon Wireless Live Oak and Capitola facilities serving the gap area, resulting in severe service degradation, notably at the Capitola Mall commercial center. The majority of Verizon Wireless's new 4G service must be provided using AWS Spectrum, which requires facilities closer together and closer to the end user in order to provide a dominant signal and adequate LTE service. Further, there is an absence of in-building LTE service coverage in the residential neighborhood east of Capitola Mall, including commercial and government buildings along Capitola Road.

The capacity gap and coverage gap described below constitute the "significant gap" Verizon Wireless seeks to serve (the "Significant Gap"). To avoid further degradation of Verizon Wireless service in the Capitola Mall commercial area and fill a gap in in-building coverage in the residential neighborhood to the east, the Significant Gap must be remedied through construction of new infrastructure, in this case, a small building-mounted facility at 4400 Capitola Road (the "Proposed Facility").

#### **Capacity Gap**

The identified gap area is served by the existing Verizon Wireless Live Oak facility east-facing antenna sector and the Capitola facility south- and west-facing antenna sectors. These antenna sectors each provide signal to the gap. The Proposed Facility is located such that its antenna sectors will provide new dominant signal to the gap area, particularly the Capitola Mall commercial center,

substantially relieving the overloaded Live Oak facility and Capitola facility antenna sectors.

At times of high traffic volume, the coverage area of the surrounding Verizon Wireless facilities shrinks to accommodate an increasing number of mobile devices closer to that facility. In addition, the volume of voice and data services used by Verizon Wireless customers has been increasing rapidly over time, nearly doubling every year.<sup>1</sup> Verizon Wireless has modified its existing facilities in an effort to maximize the capacity available by adding AWS service; however, as shown in the graphics below, increased demand for voice and data services has already outstripped the capacity of the existing Verizon Wireless antenna sectors serving the gap area.

The below graphs show the increased usage over the last year as well as predicted usage through 2016 for the Live Oak facility east-facing antenna sector and Capitola facility south- and west-facing antenna sectors. FDV (Forward Data Volume) is the total volume of data the sector is carrying. PRBU (Physical Resource Block per User) is a measure of the allocation of data blocks.

By comparing the trend line of increasing usage (orange line) with the absolute maximum capacity throughput and spectrum availability of this existing facility (red line), Verizon Wireless RF engineering demonstrates that the Live Oak facility east-facing antenna sector reached capacity exhaustion in early 2015. The Capitola facility south-facing antenna sector reached capacity exhaustion in early 2016, and the Capitola facility west-facing antenna sector is predicted to reach exhaustion in mid-2016. Achieving capacity exhaustion severely compromises the Verizon Wireless network serving the Capitola Mall commercial area and the residential neighborhood to the east, leading to poor connectivity, loss of internet connections and extremely slow data speeds (the "Capacity Gap"). Measurements confirming slow data speeds are provided in the *Drive Test Total Download Throughput* plot below.

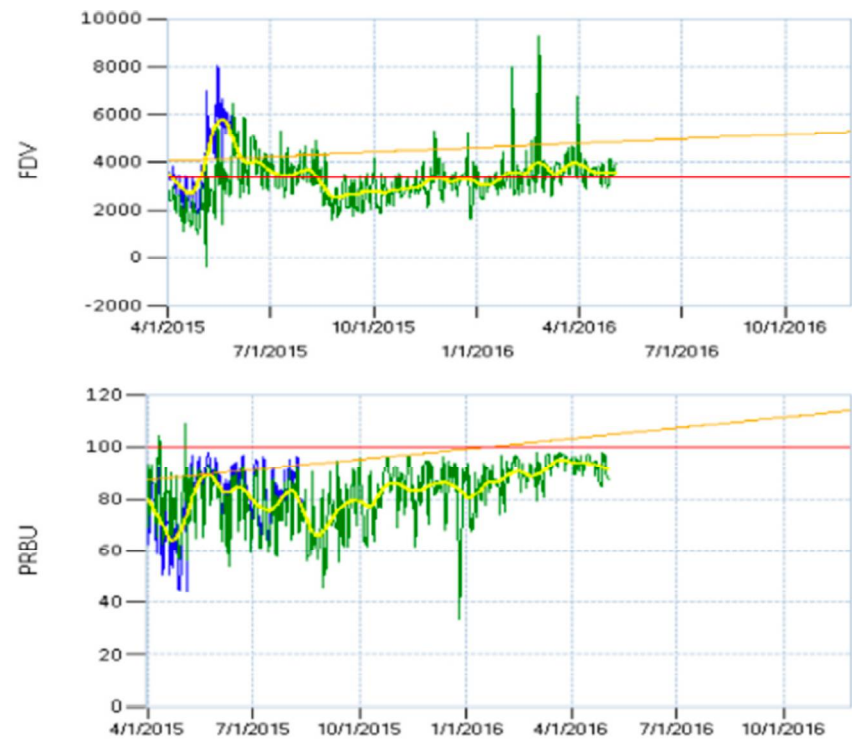
<sup>1</sup> Federal Communications Commission Report & Order 14-153, October 17, 2014, ¶ 7.



Capacity Charts  
Live Oak Facility East-Facing Antenna Sector



Capacity Charts  
Capitola Facility South-Facing Antenna Sector



Capacity Charts  
Capitola Facility West-Facing Antenna Sector



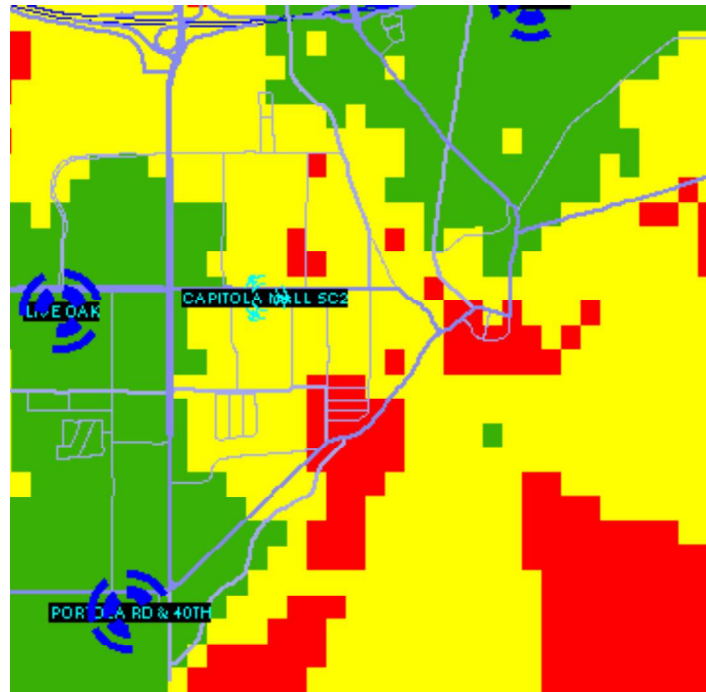
### Coverage Gap

The residential neighborhood east of Capitola Mall lacks in-building LTE coverage. This neighborhood includes housing developments such as Capitola Gardens and Villas of Capitola. The in-building LTE coverage gap also includes commercial and government buildings along Capitola Road between 41<sup>st</sup> Avenue and 45<sup>th</sup> Avenue such as the Department of Motor Vehicles. Verizon Wireless service is important for visitors to these establishments as well as for public safety and emergency services personnel responding in the area.

Coverage maps like that below provide important information regarding the anticipated level of LTE signal measured in terms of reference signal received power (RSRP), and therefore the projected coverage provided by a site at a given location.

- **Green** indicates RSRP above -75 dBm, reflecting good coverage that meets or exceeds thresholds to provide consistent and reliable network service inside buildings.
- **Yellow** indicates RSRP between -75 and -85 dBm, generally representing reliable service in vehicles, but not in buildings.
- **Red** indicates RSRP between -85 and -95 dBm, indicating poor service areas with marginal coverage unsuitable for in-vehicle use.

*Existing Coverage*



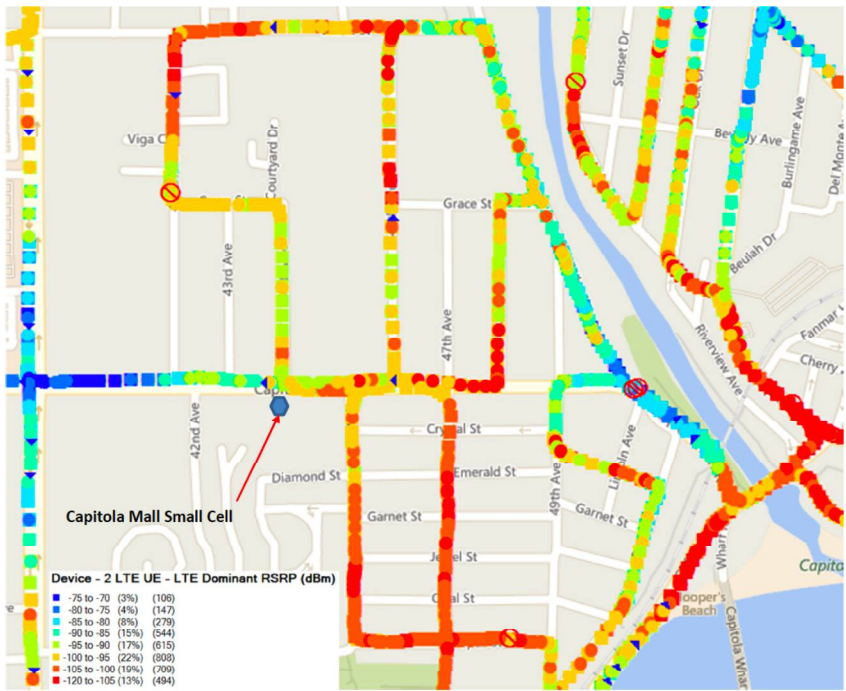


Drive Test

To evaluate the coverage gap and measure data speeds in the area, Verizon Wireless conducted a drive test. On March 29, 2016, during the evening commute between 5:00 p.m. and 6:00 p.m., a test truck was driven through select streets in the gap area to analyze Verizon Wireless service in the area.

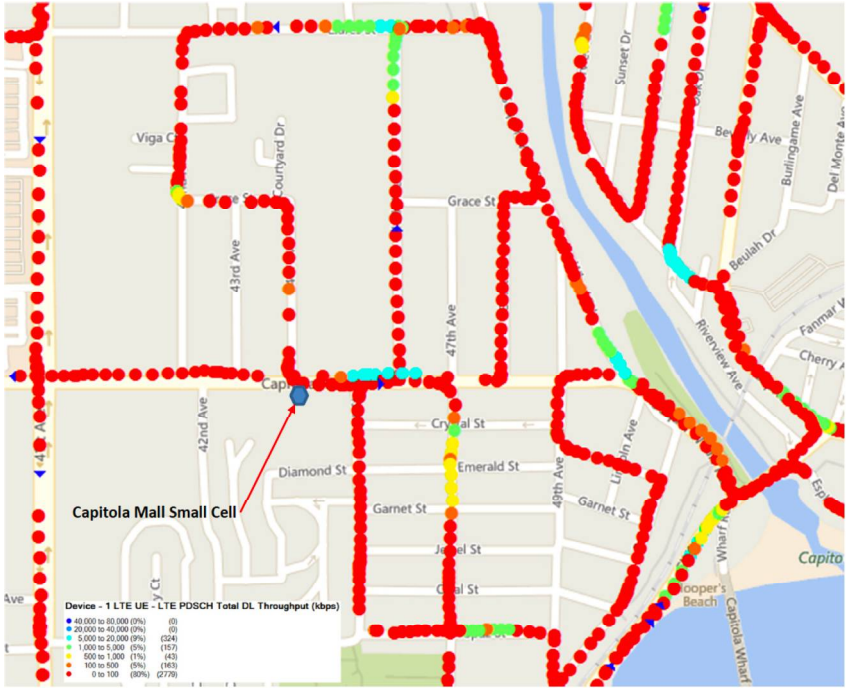
The results of the Verizon Wireless drive test are depicted on the following plots. The first plot, *Drive Test Reference Signal Receive Power*, shows the average LTE signal power received from existing Verizon Wireless facilities serving the area as measured along the drive test route. Strong, usable LTE signal is available in areas with signal above -80 dBm, shown as dark blue shades in limited areas on the plot. These are generally the ranges where calls can be made in a building or vehicle or on the street. Weaker signal (less than -80 dBm) is shown in light blue, yellow, orange and red on the plot. These are areas where Verizon Wireless customers will experience poor service indoors. These areas lack a “dominant” LTE signal from a nearby facility, and as a result, are subject to signal interference and capacity exhaustion. Signal levels in this low range are typical of those found at the edge of coverage from a distant cell site and in areas served by an overloaded antenna sector. The drive test demonstrates that the residential neighborhood east of Capitola Mall is experiencing unacceptably weak LTE signal.

Drive Test Reference Signal Receive Power



The second drive test plot, *Drive Test Total Download Throughput*, shows data packet download speeds for customer mobile phones and devices. Data packets include the digital information used for voice and all other applications of mobile devices. The slowest download speeds, less than 500 kilobytes per second, are shown as red and orange on the plot, and much of the gap area experiences such slow data speeds.

*Drive Test Total Download Throughput*



**Conclusion**

The Significant Gap in Verizon Wireless network capacity affects the Capitola Mall commercial area as increasing demands on the existing Verizon Wireless network have outstripped the capacity of the antenna sectors serving the area, resulting in very slow data speeds and poor connectivity. Further, there is a gap in in-building LTE coverage in the residential neighborhood to the east, including commercial and government buildings along Capitola Road. The Proposed Facility is essential to bring new reliable Verizon Wireless service to residents and visitors to the area.

Please feel free to contact me with any questions or comments regarding Verizon Wireless's proposed facility.

Respectfully submitted,



Stefano Iachella  
RF Design Engineer  
Network Engineering Department  
Verizon Wireless



# Verizon Wireless Statement for the city of Capitola

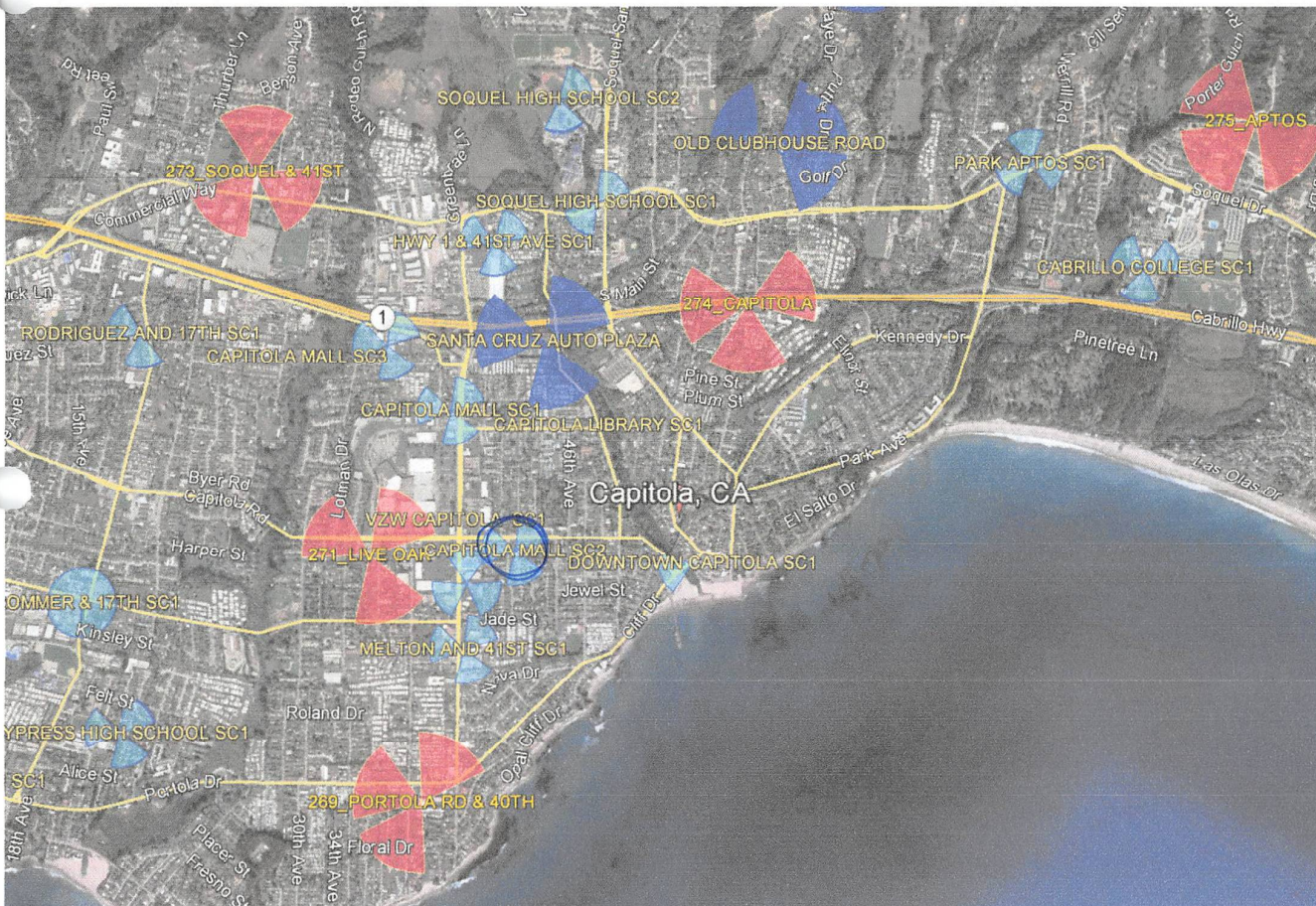
Prepared by Verizon Wireless  
RF Engineering

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# DOWNTOWN CAPITOLA SC1



## Existing facilities:

CAPITOLA, LIVE OAK,  
PORTOLA RD & 40<sup>TH</sup>  
SOQUEL & 41<sup>ST</sup>, APTOS

## Planned facilities:

CAPITOLA MALL SC1  
CAPITOLA MALL SC2  
CAPITOLA MALL SC3  
CAPITOLA LIBRARY  
SANTA CRUZ AUTO PLAZA  
PARK APTOS SC1  
CABRILLO COLLEGE SC1  
OLD CLUBHOUSE ROAD  
HWY 1 & 41<sup>ST</sup> AVE SC1  
MELTON AND 41<sup>ST</sup> SC1  
SOQUEL HIGH SCHOOL SC1  
SOQUEL HIGH SCHOOL SC2  
DOWNTOWN CAPITOLA SC1





# CAPITOLA

Information on existing facilities within a mile:

## CAPITOLA

Location – 36-59-01.02 N, 121-56-58.65 W

Macro cell site on a 72' tall Monopole collocating with NEXTEL, SPRINT, CELL ONE.



CAPITOLA is a major site serving residential and commercial traffic in the eastern portion of the city from Perry Park all the way to Aptos, including malls on Bay Ave, HWY 1, Downtown Capitola, and Soquel High School. This is a heavily exhausted site with too many connected users and very low data speed due to the small number of cell sites in the area.



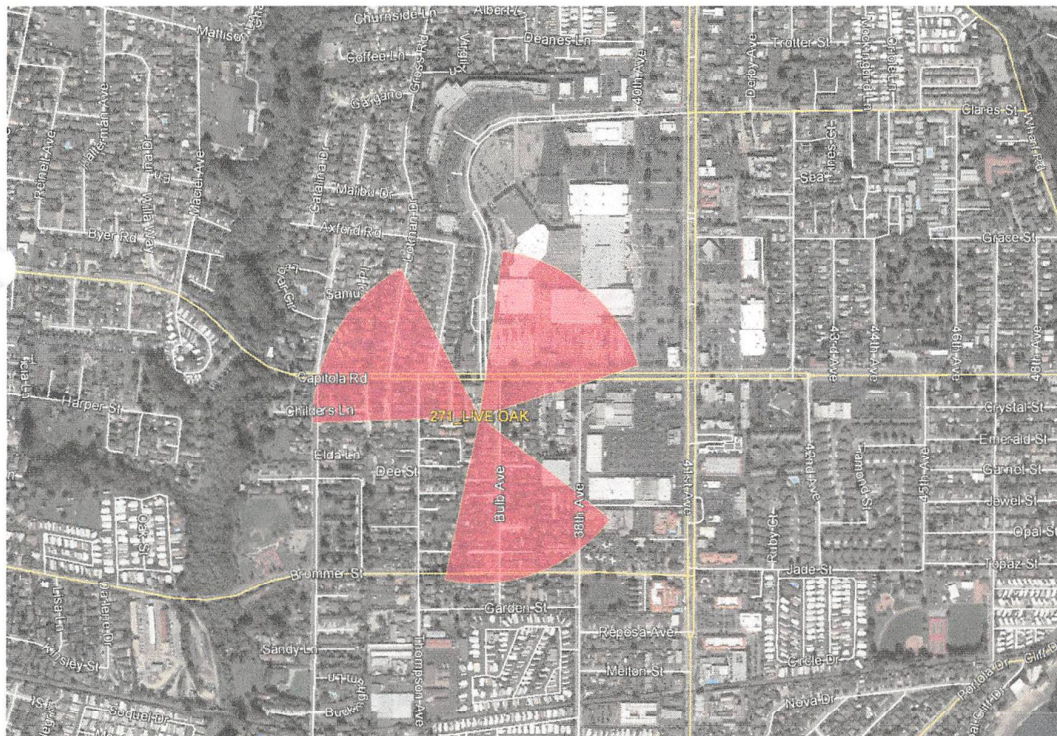
## LIVE OAK

Information on existing facilities within a mile:

### LIVE OAK

Location – 36-58-22.80 N, 121-58-10.50 W

Macro cell site on a 108.5' tall Monopole collocating with three other carriers. Verizon antennas are at 60'.



LIVE OAK serves the entire Capitola mall area as well as highly dense population area with a lot of data traffic. Due to the number of users and the amount of data services requested by users, Live Oak is exhausted and is performing poorly. Immediate capacity offload by adding more sites is recommended for better user experience and seamless E911 service.

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4





## PORTOLA RD & 40<sup>TH</sup>

Information on existing facilities within a mile:

### PORTOLA RD & 40<sup>TH</sup>

Location – 36-57-45.90 N, 121-58-00.00 W

Macro cell site on a 35' tall building roof.



PORTOLA RD & 40<sup>TH</sup> site serves the lower portion of Capitola along the beach, and residential houses in the area. This site is also heavily overloaded and exhausted with a too many connections and too many data usage.





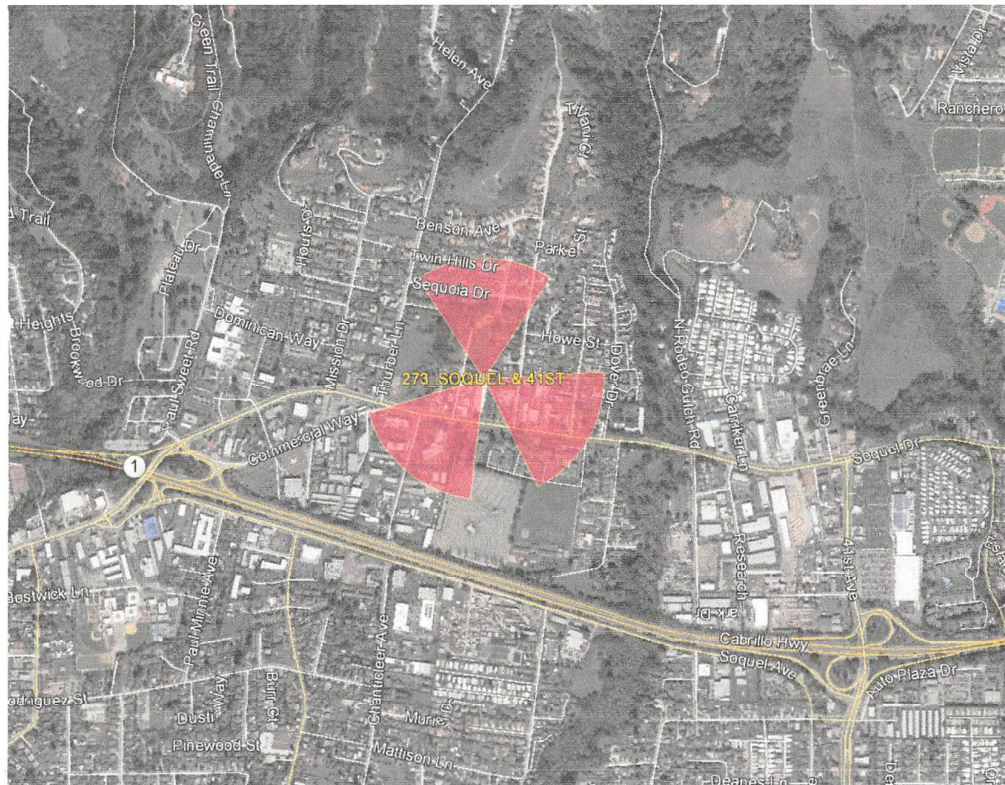
## SOQUEL & 41ST

Information on existing facilities within a mile:

### SOQUEL & 41ST

Location – 36-59-21.69 N, 121-58-33.60 W

Macro cell site with antennas mounted in a Chimney on a roof of a 35' building.



SOQUEL & 41<sup>ST</sup> serves the western portion of Soquel and HWY 1. There are some commercial zones and residential areas that have data traffic that is not exhausting overwhelming the macro, but is increasing in a fast pace. We anticipate that this site will reach its maximum capacity at the end of 2015.



# APTOS

Information on existing facilities within a mile:

## APTOS

Location – 36-59-28.06 N, 121-55-23.39 W

Macro cell site on a 51' tall antenna tower.



APTOS is another major site in the area that serves the entire city of Aptos including high traffic areas like Cabrillo College and surrounding residential areas. This site is also heavily exhausted and more cell sites must be added to provide good service in this area.

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## DOWNTOWN CAPITOLA SC1

### Information on planned facilities within a mile:

(Please note that all information regarding “planned” facilities is subject to change.)

**CAPITOLA MALL SC1** – 36-58-44.75 N, 121-57-55.40 W

**CAPITOLA MALL SC2** – 36-58-24.32 N, 121-57-39.19 W

**CAPITOLA MALL SC3** – 36-58-54.79 N, 121-58-07.78 W

Small Cell sites with a minimal design of a single 2' canister antenna on JPA poles to offload traffic from LIVE OAK macro cell site that is currently serving the entire Capitola Mall.

**SANTA CRUZ AUTO PLAZA** – 36-58-55.48 N, 121-57-37.81 W

Planned macro in the area. Location is not settled.

**CAPITOLA LIBRARY** – 36-58-46.59 N, 121-57-29.23 W

Small Cell site with a minimal design of a single 2' canister antenna on a JPA pole to offload traffic from CAPITOLA and LIVE OAK site that are currently serving the area.

**PARK APTOS SC1** – 36-59-22.86 N, 121-56-04.59 W

Small Cell site with a minimal design of a single 2' canister antenna on a JPA pole to offload traffic from CAPITOLA and APTOS macro sites that are currently serving the area.

**CABRILLO COLLEGE SC1** – 36-59-09.05 N, 121-55-32.24 W

Small Cell site with a minimal design of 2' antennas on a light pole to offload traffic from CABRILLO COLLEGE.

Confidential and proprietary materials for authorized Verizon personnel and outside agencies only. Use, disclosure or distribution of this material is not permitted to any unauthorized persons or third parties except by written agreement.



## DOWNTOWN CAPITOLA SC1

### Information on planned facilities within a mile:

(Please note that all information regarding “planned” facilities is subject to change.)

#### OLD CLUBHOUSE ROAD – 36-59-25.57 N, 121-56-52.35 W

Macro cell site to offload traffic from CAPITOLA and provide better coverage and capacity to the city of Soquel.

#### HWY 1 & 41<sup>st</sup> AVE SC1 – 36-59-10.74 N, 121-57-47.59 W

Small Cell site with a minimal design on a rooftop to offload traffic from SOQUEL & 41<sup>st</sup> and CAPITOLA macro.

#### MELTON AND 41<sup>ST</sup> SC1 – 36-58-08.67 N, 121-57-52.54 W

Small Cell site with a minimal design of 2’ canister antennas on a rooftop to offload traffic from LIVE OAK and Capitola mall.

#### SOQUEL HIGH SCHOOL SC1 – 36-59-17.36 N, 121-57-27.65 W

#### SOQUEL HIGH SCHOOL SC2 – 36-59-33.63 N, 121-57-35.16 W

Small Cell sites with minimal design of a 2’ canister antenna on a rooftop to provide coverage and capacity to Soquel High School.

#### DOWNTOWN CAPITOLA SC1 – 36-58-21.54 N, 121-57-09.30 W

Small Cell site with a minimal design of a 2’ canister antenna on a rooftop to provide coverage and capacity to the area and offload existing CAPITOLA site.

Confidential and proprietary materials for authorized Verizon personnel and outside agencies only. Use, disclosure or distribution of this material is not permitted to any unauthorized persons or third parties except by written agreement.

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### **Project Description**

Verizon Wireless Small-Cell Telecom Facility  
4400 Capitola Rd., Capitola, CA 95010  
Verizon Site Name: Capitola Mall SC2  
APN 034-111-43

### **Nature of Request**

Verizon seeks a Planning Department approval to install a new “microcell” wireless facility on an existing rooftop. The purpose of this facility would be to increase capacity by offloading wireless communications traffic from surrounding areas.

### **Property Description**

The subject property is zoned CN (Neighborhood Commercial) and is owned by Lomak Property Group. The proposed microcell site is a rooftop of a commercial building.

### **Project Description**

The proposal is for a new, unmanned, pole-mounted “small cell” facility including a small concrete pad at ground level on which the equipment cabinet would be installed. The proposal includes:

- Mount (2) (N) 2-ft-high cylindrical antennas, one per sector, centered at 33'-6" AGL and topping at 34'-6".
- Install (6) (N) remote radio units (RRUs) mounted near antennas on mansard wall.
- Install a Charles equipment cabinet on concrete slab on southeast corner of building.

### **Statement of Operations**

The proposed Verizon communication facility will use existing electrical and telephone services, which are readily available to the site. No nuisances will be generated by the proposed facility, nor will the facility injure the public health, safety, morals or general welfare of the community. Verizon technology does not interfere with any other forms of communication devices whether public or private.

Upon completion of construction, fine tuning of the facility may be necessary, meaning the site will be adjusted once or twice a month by a service technician for routine maintenance. No additional parking spaces are needed at the project site for maintenance activities. The site is entirely self monitored and connects directly to a central office where sophisticated computers alert personnel to any equipment malfunction or breach of security.

Because the facility will be un-staffed, there will be no regular hours of operation and no impact to existing traffic patterns. Existing public roads will provide access to the technician who arrives infrequently to service the site. No on-site water or sanitation services will be required as a part of this proposal.

**Zoning Analysis**

The site of the proposed facility is currently zoned CN (Neighborhood Commercial). This project requires no zoning changes.

**Compliance with Federal Regulations**

Verizon will comply with all FCC rules governing construction requirements, technical standards, interference protection, power and height limitations, and radio frequency standards. In addition, the company will comply with all FAA rules on site location and operation.



Beacon Development, LLC

### LETTER OF AUTHORIZATION

The undersigned is the Owner/Authorized representative ("Owner") and an authorized signatory of the real property ("PROPERTY") described below and hereby authorizes Verizon Wireless its successors and assigns, ("Verizon") and/or its agent, to act as the non-exclusive agent for the sole purpose of filing and consummating any land-use or building permit application(s) necessary to obtain approval of the applicable jurisdiction for Verizon's installation of its antennas and related telecommunications equipment on the existing PROPERTY. This installation shall not affect adjoining lands and will occur only within the area owned by OWNER.

It is understood that this application may be denied, modified or approved with conditions. The above authorization is limited to the acceptance by Verizon only of conditions related to Verizon's installation, provided that any such conditions of approval or modifications will be the sole responsibility of Verizon. *OWNER SHALL NOT BE RESPONSIBLE FOR ANY EXPENSE OR OBLIGATION RELATED TO THIS APPLICATION OR THE INSTALLATION.* DIC

The above authorization does not permit Verizon to modify or alter any existing permit(s) and/or zoning or land-use conditions or impose any additional conditions unrelated to Verizon's installation of telecommunications equipment without the prior written approval of OWNER.

*CAPITOLA ROAD LLC BY:*

Signature: *[Signature]*

Print Name: *DOUG KNOX*  
*MANAGING MEMBER*

Date: *9/28/15*

Site ID: Capitola Mall SC2

Site Address: 4400 Capitola Road, Capitola, CA 95010

Site APN: 034-111-530



Verizon Wireless  
2785 Mitchell Drive  
Building 9  
Walnut Creek, CA 94598

June 10, 2015

Subject: **Verizon Wireless Maintenance of Proposed Small Cells in Capitola**

At a minimum, Verizon Wireless technicians visit their cell sites once a quarter. During this quarterly preventative maintenance, the technician is tasked with observing and identifying any concerns with the cell site. This can include issues with the Verizon Wireless provided equipment (e.g. radio, antennas) as well as issues with the grounds themselves (e.g. sweeping away debris from the ground, identifying roofing hazards).

The technician will usually arrive in a pickup truck and parks in a manner that is unobtrusive and respectful of the landowner's property. On occasion up to three technicians may work on an individual cell site, but typically there will be only be one technician working at a particular time.

Verizon Wireless will also dispatch a technician to repair malfunctioning systems at the cell site itself. Verizon has alarming of its systems to verify when a break-fix is required. These types of issues happen irregularly, so there is no specified frequency of occurrence.

The proposed small cells will be treated much like a standard macro (large cell) deployment in terms of maintenance. Verizon Wireless, at times, may use contractors to aide in break-fix. These contractors are held to the company's standards and are expected to work and conduct themselves in the same manner as Verizon Wireless cell technicians.

The goal with these sites is to be able to provide reliable cell service to the city and to our customers.

Thanks,

A handwritten signature in black ink, appearing to read "S. Sinnaduray".

Sanjiv Sinnaduray  
Supervisor - Operations

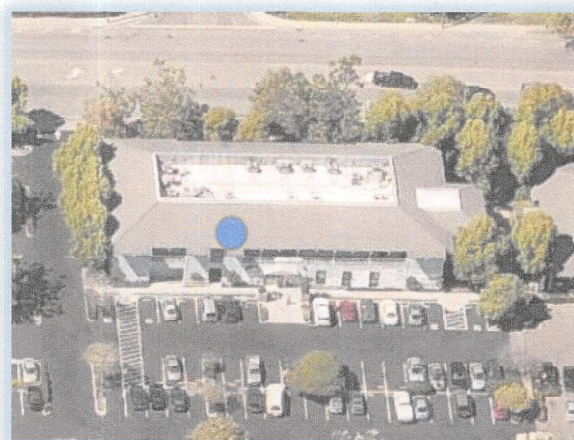


## Radio Frequency - Electromagnetic Energy (RF-EME) Jurisdictional Report

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Site No. 312144  
Capitola Mall SC2  
4400 Capitola Road  
Capitola, California 95010  
Santa Cruz County  
36° 58' 24.32" N, -121° 57' 39.19" W NAD83

EBI Project No. 6215003134  
June 8, 2015



Prepared for:  
Verizon Wireless  
2785 Mitchell Drive  
Walnut Creek, CA 94598

Prepared by:  
 **EBI Consulting**  
environmental | engineering | due diligence

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RF-EME Compliance Report  
EBI Project No. 6215003134

Site No. 312144  
4400 Capitola Road, Capitola, California

## EXECUTIVE SUMMARY

### Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Verizon Wireless to conduct radio frequency electromagnetic (RF-EME) modeling for Verizon Site 312144 located at 4400 Capitola Road in Capitola, California to determine RF-EME exposure levels from proposed Verizon wireless communications equipment at this site. As described in greater detail in Section 2.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

### Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

As presented in the sections below, based on worst-case predictive modeling, the worst-case emitted power density may exceed the FCC's general public limit within approximately 9 feet of Verizon's proposed antennas at the main roof level. Modeling also indicates that the worst-case emitted power density may exceed the FCC's occupational limit within approximately 5 feet of Verizon's proposed antennas at the main roof level. Additionally, there are areas where workers who may be elevated above the rooftop or ground may be exposed to power densities greater than the occupational limits. Therefore, workers should be informed about the presence and locations of antennas and their associated fields.

At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately **3,589.60** percent of the FCC's general public limit (**717.92** percent of the FCC's occupational limit).

The composite exposure level from all carriers on this site is approximately **3,589.60** percent of the FCC's general public limit (**717.92** percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes instructions to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

**1.0 INTRODUCTION**

Radio frequency waves are electromagnetic waves from the portion of the electromagnetic spectrum at frequencies lower than visible light and microwaves. The wavelengths of radio waves range from thousands of meters to around 30 centimeters. These wavelengths correspond to frequencies as low as 3 cycles per seconds (or hertz [Hz]) to as high as one gigahertz (one billion cycles per second).

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 700-2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed a distance above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of in areas in the immediate vicinity of the antennas.

MPE limits do not represent levels where a health risk exists, since they are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size or health.

**2.0 SITE DESCRIPTION**

This project site includes two (2) wireless telecommunication antennas (at two locations) on a rooftop located at 4400 Capitola Road in Capitola, California.

Verizon Antenna Information (proposed Configuration)									
Antenna# and Model	Frequency (MHz)	# of Transmitters	Transmit Power (Watts)	Azimuth	Gain (dBd)	Feet above Ground (CL)	X	Y	Z
A1 Amphenol CWT070X06F0Y	700	2	20	90°	6.9/11.9	32.5 ft AGL	132	32	.5
	2100	2	20						
B1 Amphenol CWT070X06F0Y	700	2	20	220°	6.9/11.9	32.5 ft AGL	36	63	.5
	2100	2	20						
C1 Amphenol CWT070X06F0Y	700	2	20	330°	6.9/11.9	32.5 ft AGL	36	63	.5
	2100	2	20						

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general population/uncontrolled exposure limits for members of the general public that may be exposed to antenna fields. While access to this site is



considered uncontrolled, the analysis has considered exposures with respect to both controlled and uncontrolled limits as an untrained worker may access adjacent rooftop locations. Additional information regarding controlled/uncontrolled exposure limits is provided in Section 3.0. Appendix B presents a site safety plan that provides a plan view of the rooftop with antenna locations.

### 3.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

**Occupational/controlled exposure limits** apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

**General public/uncontrolled exposure limits** apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm<sup>2</sup>). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm<sup>2</sup>) and an uncontrolled MPE of 1 mW/cm<sup>2</sup> for equipment operating in the 1900 MHz frequency range. For the Verizon equipment operating at 700 MHz or 850 MHz, the FCC's occupational MPE is 2.83 mW/cm<sup>2</sup> and an uncontrolled MPE of 0.57 mW/cm<sup>2</sup>. These limits are considered protective of these populations.

**Table 1: Limits for Maximum Permissible Exposure (MPE)****(A) Limits for Occupational/Controlled Exposure**

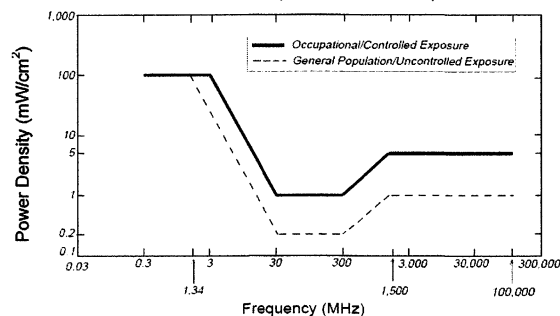
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time [E] <sup>2</sup> , [H] <sup>2</sup> , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6

**(B) Limits for General Public/Uncontrolled Exposure**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time [E] <sup>2</sup> , [H] <sup>2</sup> , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

\* Plane-wave equivalent power density

**Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)**  
Plane-wave Equivalent Power Density

Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm <sup>2</sup>	1.00 mW/cm <sup>2</sup>
Cellular Telephone	870 MHz	2.90 mW/cm <sup>2</sup>	0.58 mW/cm <sup>2</sup>
Specialized Mobile Radio	855 MHz	2.85 mW/cm <sup>2</sup>	0.57 mW/cm <sup>2</sup>
Most Restrictive Freq. Range	30-300 MHz	1.00 mW/cm <sup>2</sup>	0.20 mW/cm <sup>2</sup>

RF-EME Compliance Report  
EBI Project No. 6215003134

Site No. 312144  
4400 Capitola Road, Capitola, California

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 700-2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

#### 4.0 WORST-CASE PREDICTIVE MODELING

EBI has performed theoretical modeling using RoofView® software to estimate the worst-case power density at the site rooftop-level resulting from operation of the antennas. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

The modeling is based on worst-case assumptions for the number of antennas and transmitter power. The modeling assumes a maximum 4-4-4 radio configuration for Sectors A, B and C, with a power level of 43 dBm (20 watts) per transmitter for 700 and 2100, in order to provide a worst-case evaluation of predicted MPE levels. The assumptions used in the modeling are based upon information provided by Verizon, and information gathered from other sources. The parameters used for the modeling are summarized in the RoofView® export files presented in Appendix C.

There are no other wireless carriers with equipment installed at this site.

Based on worst-case predictive modeling, the worst-case emitted power density may exceed the FCC's general public limit within approximately 9 feet of Verizon's Sector A, B, and C antennas on the sloped roof level. Modeling also indicates that the worst-case emitted power density may exceed the FCC's occupational limit within approximately 5 feet of Verizon's Sector A, B, and C antennas on the sloped rooftop level. Additionally, there are no exceedances in front of the Verizon antennas at the main roof level. At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately 3,589.60 percent of the FCC's general public limit (717.92 percent of the FCC's occupational limit). The composite exposure level from all carriers on this site is approximately 3,589.60 percent of the FCC's general public limit (717.92 percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

The Site Safety Plan also presents areas where Verizon Wireless antennas contribute greater than 5% of the applicable MPE limit for a site. A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place.

RF-EME Compliance Report  
EBI Project No. 6215003134

Site No. 312144  
4400 Capitola Road, Capitola, California

Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix C. A graphical representation of the RoofView® modeling results is presented in Appendix B. It should be noted that RoofView is not suitable for modeling microwave dish antennas; however, these units are designed for point-to-point operations at the elevations of the installed equipment rather than ground level coverage.



## 5.0 MITIGATION/SITE CONTROL OPTIONS

EBI's modeling indicates that there are areas in front of the Verizon antennas that exceed the FCC standards for general public and occupational exposure. In order to alert people accessing the rooftop, a Guidelines sign and an NOC Information sign are recommended for installation at each access point to the rooftop. A Guidelines sign and yellow Caution sign should be installed at each antenna canister. The RF fields occur over a sloped rooftop with an unprotected edge and therefore barriers are not recommended.

Barriers are recommended for installation when possible to block access to the areas in front of the antennas that exceed the FCC general public and/or occupational limits. Barriers may consist of rope, chain, or fencing. Painted stripes should only be used as a last resort. Due to the unprotected edge of the sloped roof barriers are not recommended, otherwise barriers would be recommended 9 feet in front of the Verizon Sector A, B and C antennas on the sloped rooftop.

These protocols and recommended control measures have been summarized and included with a graphic representation of the antennas and associated signage and control areas in a RF-EME Site Safety Plan, which is included as Appendix B. Individuals and workers accessing the roof should be provided with a copy of the attached Site Safety Plan, made aware of the posted signage, and signify their understanding of the Site Safety Plan.

Implementation of the signage recommended in the Site Safety Plan and in this report will bring this site into compliance with the FCC's rules and regulations.

## 6.0 SUMMARY AND CONCLUSIONS

EBI has prepared a Radiofrequency – Electromagnetic Energy (RF-EME) Compliance Report for telecommunications equipment installed by Verizon Site Number 312144 located at 4400 Capitola Road in Capitola, California to determine worst-case predicted RF-EME exposure levels from wireless communications equipment installed at this site. This report summarizes the results of RF-EME modeling in relation to relevant Federal Communications Commission (FCC) RF-EME compliance standards for limiting human exposure to RF-EME fields.

As presented in the sections above, based on the FCC criteria, the worst-case emitted power density may exceed the FCC's general public limit within approximately 9 feet of Verizon's proposed antennas at the main roof level. Modeling also indicates that the worst-case emitted power density may exceed the FCC's occupational limit within approximately 5 feet of Verizon's proposed antennas at the main roof level. Workers should be informed about the presence and locations of antennas and their associated fields. Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes procedures to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

## 7.0 LIMITATIONS

This report was prepared for the use of Verizon Wireless. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

RF-EME Compliance Report  
EBI Project No. 6215003134

Site No. 312144  
4400 Capitola Road, Capitola, California

## Appendix A

### Certifications

RF-EME Compliance Report  
EBI Project No. 6215003134

Site No. 312144  
4400 Capitola Road, Capitola, California

Reviewed and Approved by:



Herbert J. Stockinger, PE  
Senior Engineer

A handwritten signature in blue ink, appearing to read "H. Stockinger", written over a horizontal line.

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the building and related structures, as well as the impact of the antennas and broadcast equipment on the structural integrity of the building, are specifically excluded from EBI's scope of work.

EBI Consulting

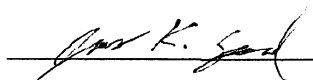
RF-EME Compliance Report  
EBI Project No. 6215003134

Site No. 312144  
4400 Capitola Road, Capitola, California

## Preparer Certification

I, James Speed, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" under the FCC regulations.
- I am familiar with the FCC rules and regulations as well as OSHA regulations both in general and as they apply to RF-EME exposure.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.









RF-EME Compliance Report  
EBI Project No. 6215003134

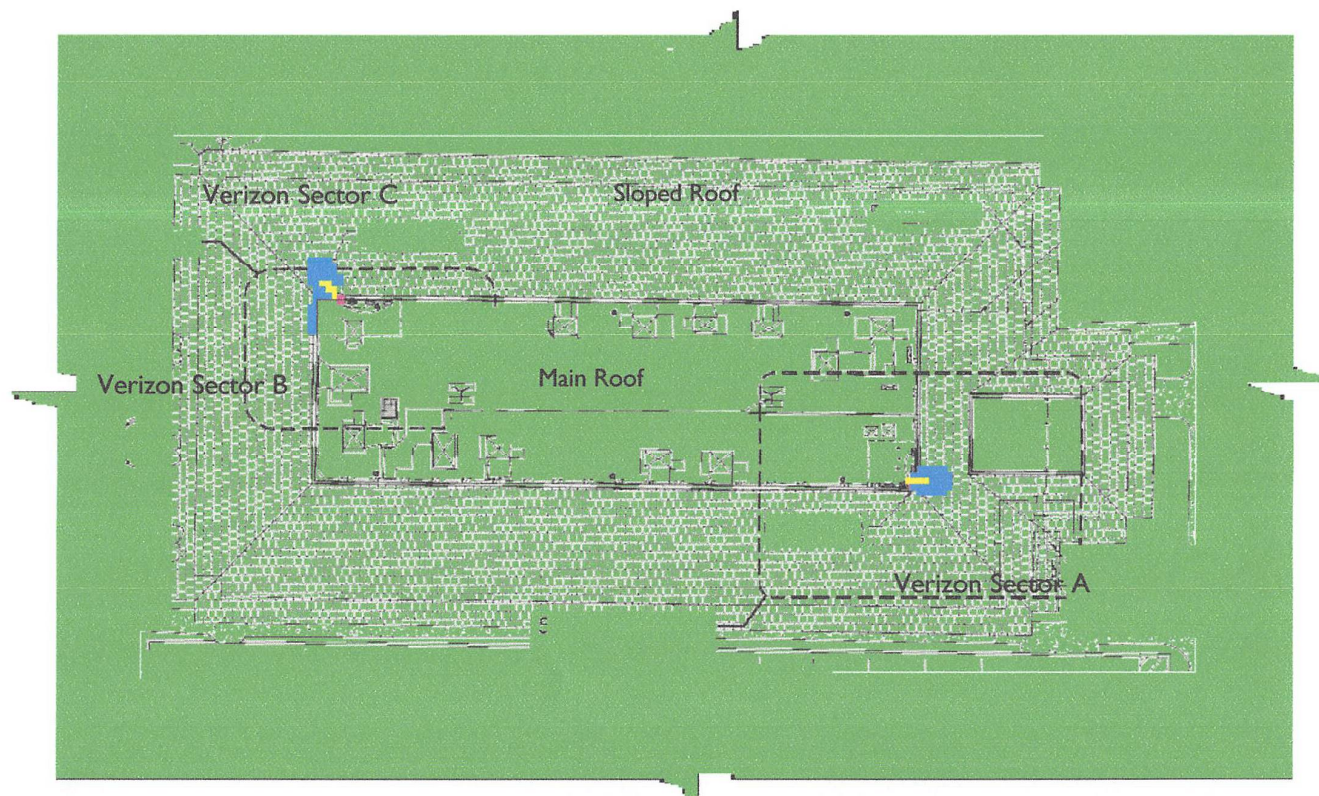
Site No. 312144  
4400 Capitola Road, Capitola, California

**Appendix B**  
**Radio Frequency Electromagnetic Energy**  
**Safety / Signage Plans**

Attachment: Verizon Project Plans and Information (1540 : Verizon Facility at 4400 Capitola Road)

## % FCC Public Exposure Limit

	Exposure Level $\geq 5,000$
	$500 < \text{Exposure Level} \leq 5,000$
	$100 < \text{Exposure Level} \leq 500$
	Exposure Level $\leq 100$



	Verizon Antennas
	Other Carrier Antennas

**Roofview: Composite Exposure Levels**

Facility Operator: Verizon Wireless

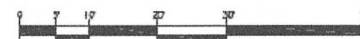
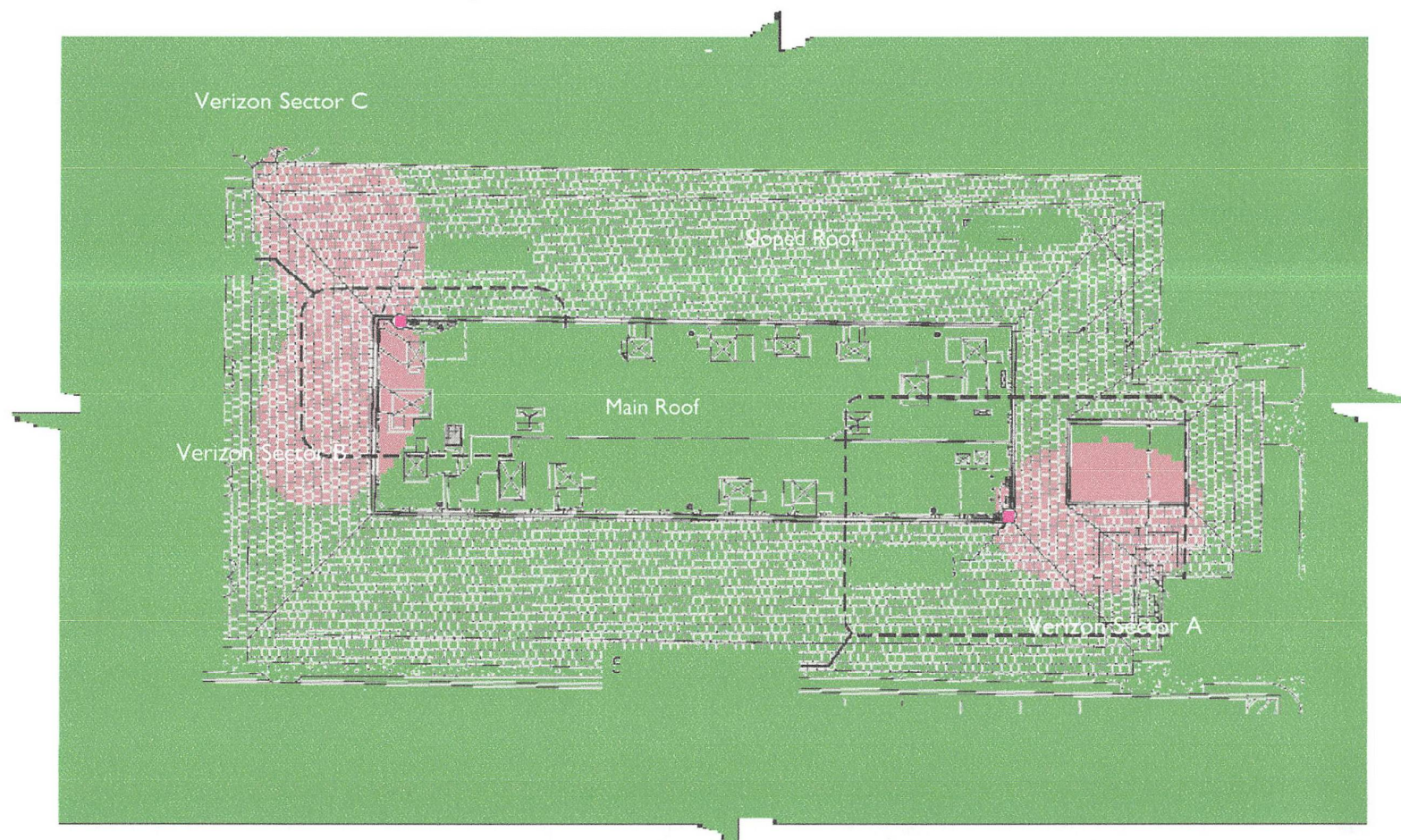
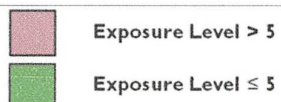
Site Name: Capitola Mall SC2

Verizon Site Number: 312144

Report Date: 06-08-15



## % FCC Public Exposure Limit

**Roofview: Verizon Exposure Levels**

Facility Operator: Verizon Wireless

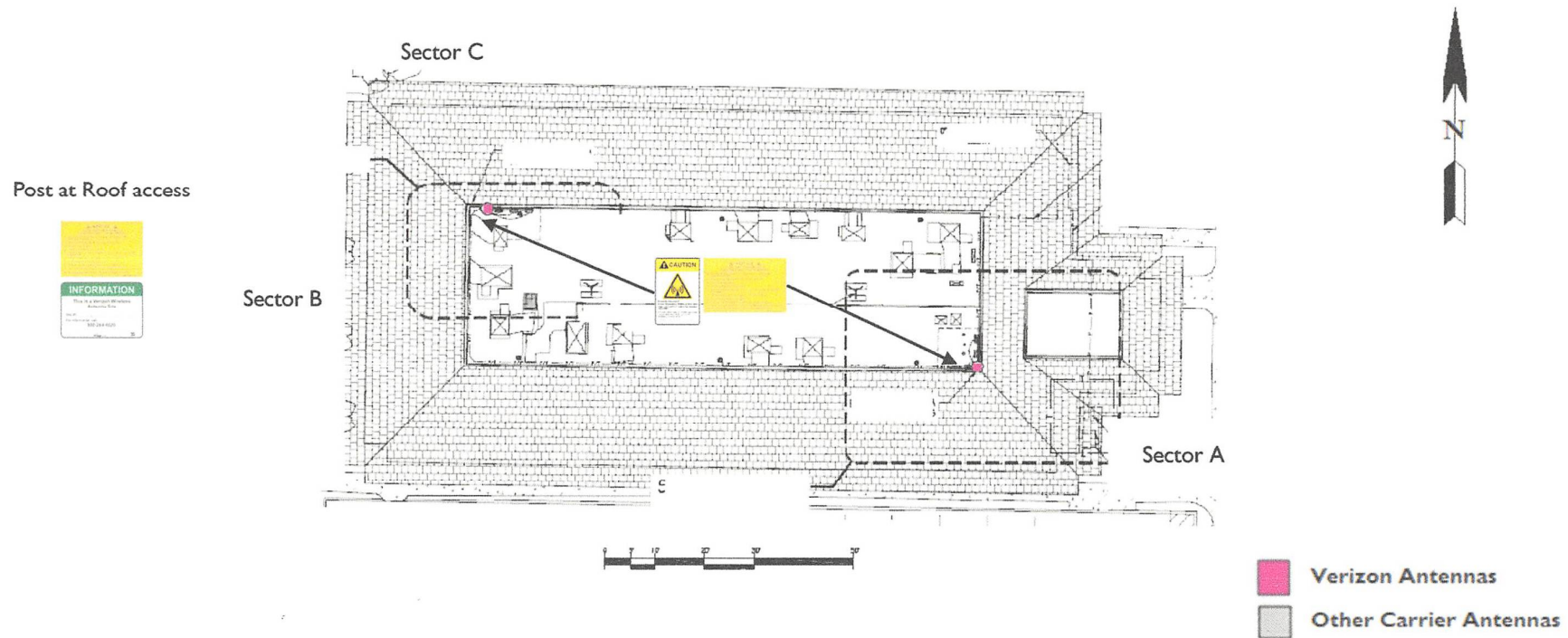
Site Name: Capitola Mall SC2

Verizon Site Number: 312144

Report Date: 06-08-15



# Verizon Signage Plan



Sign Image	Description	Posting Instructions	Required Signage
	<b>Notice To Workers</b> Informational sign, used to notify workers that there are active antennas installed and provide guidelines for working in RF environments.	Securely post at every point of access to the In a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	On each access doors and at the antenna sectors
	<b>NOC Information Sign</b> Informational sign with NOC Phone Number and Base Transceiver Station (BTS) Number	Securely post at every point of access to the site.	On each access doors



	<b>Yellow Caution Sign</b> Used to alert individuals that they are entering an area where the power density emitted from transmitting antennas may exceed the FCC's maximum permissible exposure limit for the general public and the occupational exposure limit.	Securely post at each antenna canister.	on each access doors and at the antenna sectors
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EBI Consulting ♦ 21 B Street ♦ Burlington, MA 01803 ♦ 1.800.786.2346

RF-EME Compliance Report  
EBI Project No. 6215003134

Site No. 312144  
4400 Capitola Road, Capitola, California

## **Appendix C**

### **Roofview® Export File**

**StartMapDefinition**

Roof Max Y Roof Max X Map Max Y Map Max X Y Offset X Offset Number of envelope  
 120 170 140 190 20 20 1 \$AE\$81:\$G \$AE\$81:\$GR\$200

List Of Areas  
 \$AE\$81:\$GR\$200

**StartSettingsData**

Standard Method Uptime Scale Factor Low Thr Low Color Mid Thr Mid Color Hi Thr Hi Color Over Color Ap Ht Mult Ap Ht Method  
 4 2 1 1 100 1 500 4 5000 2 3 1.5 1

**StartAntennaData**

It is advisable to provide an ID (ant 1) for all antennas

ID	Name	Freq (MHz)	Trans Power	Trans Count	Coax Len	Coax Type	Other Loss	Input Power	Calc Power	Mfg	Model	(ft) X	(ft) Y	(ft) Z	Type	(ft) Aper	dBd Gain	BWdth Pt Dir	Uptime Profile	ON flag
VZW A1	LTE	2100	20	2	0	0	0.55	35.24195	Amphenol	CWT070X0	132	32	0.5	2	11.9 61;90	ON•				
VZW A1	LTE	700	20	2	0	0	0.35	36.90286	Amphenol	CWT070X0	132	32	0.5	2	6.9 67.2;90	ON•				
VZW B1	LTE	2100	20	2	0	0	0.55	35.24195	Amphenol	CWT070X0	36	63	0.5	2	11.9 61;210	ON•				
VZW B1	LTE	700	20	2	0	0	0.35	36.90286	Amphenol	CWT070X0	36	63	0.5	2	6.9 67.2;210	ON•				
VZW C1	LTE	2100	20	2	0	0	0.55	35.24195	Amphenol	CWT070X0	36	63	0.5	2	11.9 61;330	ON•				
VZW C1	LTE	700	20	2	0	0	0.35	36.90286	Amphenol	CWT070X0	36	63	0.5	2	6.9 67.2;330	ON•				

**StartSymbolData**

Sym	Map Mark	Roof X	Roof Y	Map Label	Description ( notes for this table only )
Sym		5	35	AC Unit	Sample symbols
Sym		14	5	Roof Access	
Sym		45	5	AC Unit	
Sym		45	20	Ladder	

### Site Planning and Zoning Summary

The following outlines the zoning code requirements for new wireless antenna development in the PO (Professional Office) Zoning District relative to the application.

#### **General Requirements (17.98.080)**

17.98.080 - B: Restricted Zoning Districts: prohibited within 500 feet (and also 300 feet) of the following districts:

- Single-Family Residential
- Multi-Family Residential
- Mobile Home
- Commercial residential
- Parks and open space
- Public Facilities
- Transient rental use overlay

**The proposal does not comply.** Verizon's proposal is located on an existing two-story professional office building at 4400 Capitola Road, just 200 feet from multi-family residences (zoned PD) due south, roughly 300 feet from single-family residences (zoned R-1) and commercial retail (CR) zoned properties to the east, and 290 feet from residences (zoned RM-LM) to the north. The proposed site does not comply with the restricted zoning district setbacks.

17.98.080 – C: Restricted Coastal Areas – School Areas – Skilled Nursing Facility Areas: “absolutely prohibited in areas that lie within one thousand feet of the coastline [...] and five hundred feet of a school property or skilled nursing facility.”

**The proposal complies.** The proposal is located roughly 2,000 feet from the coastline due south, zoned “Public Facility – Parks, Open Space” and is located over 1,500 feet from any school area or skilled nursing facility. However, the code also lists a more restrictive coastline setback of 1,000 feet. The proposal would not comply with the 1,000 foot standard.

17.98.080 – E: Compliance with FCC Regulations:

**The proposal complies.** The applicant submitted an engineering report verifying that they will comply with FCC regulations.

17.98.080 – F: Co-location: when feasible, co-location onto existing sites is required

**The proposal complies.** There are no existing nearby sites within Verizon's search area to co-locate on to. The applicant submitted a statement, saying they are open to other carriers co-locating on to this new site at 4400 Capitola Road.

17.98.080 – G: Visual Effect: facilities located so as to minimized their visual impact as much as possible

**The proposal complies.** Staff feels that the proposed antenna facility will have a minimal impact due to it being located on to an existing two-story building and since the antennas would only be two feet tall and screened with a canister (faux vent). The facility will be visible, but it will not be visually intrusive. The new equipment will mimic the design of a roof vent. There is a row of trees along Capitola Road that will shield the proposal from public view.

17.98.080 – H: Landscaping:

**Not required.** No major landscaping proposed to be added or removed with the roof-top antenna installation.



### **Location Standards (17.98.090)**

#### **17.98.090 – A: Location preferences:**

1. Industrial or Commercial Sites
2. Attached to existing structures
3. Not highly visible from visually sensitive areas

**The proposal does not comply.** Although the proposed cell site complies with preferences 2 and 3, it does not comply with number 1. The site is proposed to be located on an existing office building.

#### **17.98.090 – B: In no event may a wireless facility be located within three hundred feet of a restricted zoning district.**

**The proposal does not comply.** The proposed Verizon antenna would be located on the roof of 4400 Capitola Road, just 200 feet from multi-family residences (zoned PD) due south and 290 feet from residences (zoned RM-LM) to the north. The proposed site does not comply with the restricted zoning district setbacks.

### **Preferred antenna siting and mounting techniques (17.98.100)**

Techniques are listed in order of preference:

1. Façade-mounted
2. Roof-mounted
3. Ground-mounted
4. Freestanding monopole

**The proposal does not comply.** The proposal is for a new wireless facility on the roof top of an existing two-story building. Since it is not proposed to be façade-mounted, the proposal does not constitute the most preferred siting technique.

### **Roof-mounted wireless telecommunications facilities (17.98.120)**

#### **17.98.120 – A: Discouraged on residential building.**

**The proposal complies.** The proposal would be located on an office building, not a residence.

#### **17.98.120 – B: Shall not be allowed to affect scenic views.**

**The proposal complies.** The proposal would be located along Capitola Road. The proposal would not significantly affect scenic views.

#### **17.98.120 – C: Views shall be minimized from sensitive land uses.**

**The proposal complies.** The proposed antennas would be two feet tall and would be screened within a canister. The proposal will not be a visual detriment to nearby residential uses.

#### **17.98.120 – D: Visual impact shall be minimized.**

**The proposal complies.** The two foot tall antenna proposal would project two feet-six inches above the existing roof line. The antennas will be screened within a canister structure and will be only slightly visible. There are existing trees along Capitola Road that would help screen the facility.

#### **17.98.120 – E: Shall be painted with a non-reflective finish.**

**The proposal complies.** Condition of Approval #6 has been included to ensure this.

#### **17.98.120 – F: Shall be minimally visible from road right-of-ways.**

**The proposal complies.** The proposal would be located on the roof-top of an existing two-story building. The proposed antennas will be slightly visible from Capitola Road, however an existing row of trees along Capitola Road will help screen the proposed facility.

17.98.120 – G: No structure may exceed 6 feet in height above roof line.

**The proposal complies.** The proposal antennas would be two feet-six inches above the existing roof line.

**Setbacks and projections into yards. (17.98.150)**

17.98.150 – A: Must meet setbacks of applicable zoning district.

**The proposal complies.** The proposal antenna facility and ancillary equipment is all located within the existing building footprint and comply with setback regulations of the PO (Professional Office) zoning district.

17.98.150 – C: Ground-mounted equipment shall not be readily visible from a major street.

**The proposal complies.** The only portion of the proposal which is ground-mounted is the equipment cabinet, which would be located behind the building away from Capitola Road.

**Conclusion:**

In summary, the proposed wireless antenna facility at 4400 Capitola Road does not comply with the setback restrictions of the Municipal Code. However, the proposal conforms to the design criteria listed within the code.

## **WIRELESS FACILITY FINDINGS**

The following findings were prepared to demonstrate consistency of the proposed project with sections 17.98.080 through 17.98.120 of the Capitola Municipal Code.

### *17.98.080 General requirements.*

*A. All wireless communications facilities, except for exempt facilities described in Section 17.98.010, shall comply with all applicable goals, objectives and policies of the general plan/local coastal program, area plans, zoning regulations and development standards; the California Coastal Act; and are subject to the California Environmental Quality Act (CEQA).*

- *General Plan Policy LU-1.2 Design Quality. Require all new development to feature high quality design that enhances the visual character of the community.*

Finding: The applicant has submitted photo simulations of the proposed rooftop antenna addition, which show the new equipment being very slightly visible from the adjacent Capitola Road thoroughfare. The equipment is conditioned to be painted with a non-reflective matte finish to ensure it blends well with the existing back drop. The new facility does not enhance the visual character of the community, but it also does not constitute a negative visual impact to the community. Although the new facility will be visible, it will not be visually intrusive. The new equipment will mimic the color and design of a roof top vent and is not located in a sensitive view corridor. The Planning Commission may condition the application to include additional screening materials.

- *Policy LU-4.7 Planning Projects. Ensure that future planning efforts for non-residential areas carefully consider potential impacts on adjacent residential neighborhoods.*

Finding: The planning review of the antenna facility carefully considered potential impacts on adjacent residential neighborhoods. Chapter 17.98.080 of the Capitola Municipal Code requires that new wireless antenna facilities be located a minimum of 500 feet from residential districts. In addition, chapter 17.98.090 states that the facility may “in no event less than three hundred feet” from residential districts. The proposed facility is located within the required 300 and 500 foot setback of residential properties; the facility would be just 200 feet from multi-family residences (zoned Planned Development) due south, roughly 300 feet from single-family residences, and 290 feet from residences (zoned Multi-Family Residential) to the north. The proposed site does not comply with the restricted zoning district setbacks. However, the applicant has claimed that the City’s regulations are too restrictive and are thus prohibiting the carrier from filling a gap in their coverage. Verizon submitted a “significant gap” and “least intrusive means” analysis to prove this. The analysis showed that there is a gap in cell coverage and data capacity at this location has reached its limit, and that the proposed facility would constitute the “least intrusive means” of filling said gap.

- *Policy SN-4.3 Sensitive Receptors. Prohibit land uses and development that emit obnoxious odors, particulates, light, glare, or other environmentally sensitive contaminants from being located near schools, community centers, senior homes, and other sensitive receptors.*

Finding: Chapter 17.98.080 of the Capitola Municipal Code requires that new wireless antenna facilities be located a minimum of 500 feet from public facilities and residential districts. In addition, chapter 17.98.090 states that the facility may “in no event less than three hundred feet” from the restricted districts. Subsection C also requires a 500 foot setback from schools and nursing facilities. The proposal is located less than 3,000 feet from the beach due south, zoned “Public Facility – Parks, Open Space” but is located over 500 feet from any school area or skilled nursing facility. The facility would be just 200 feet from multi-family residences (zoned Planned Development) due south, roughly 300 feet from single-family residences (zoned Single-Family Residential) and Commercial Retail (CR) zoned properties to the east, and 290 feet from residences (zoned Multi-family Residential) to the north. The proposed site does not comply with the restricted zoning district setbacks. However, the applicant submitted a “significant gap” report and “least intrusive means” analysis which proved the necessity of this new site in filling a gap in their coverage.

According to Section 332(c) of the Communications Act, “No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission’s regulations concerning such emissions.” Therefore, Radio Frequency (RF) emissions were not reviewed as a part of this application. Besides potential RF emissions, the project will not impact biological resources and sensitive habitat.

- *Policy ED-1.6 Expanded Services. Support the expansion of services and amenities that cater to both tourists and residents.*

Finding: The purpose of Verizon’s proposed cellular antenna is to improve coverage and cell capacity in the area surrounding 4400 Capitola Road east of the Capitola Mall. Cell services are used by both tourists and residents.

- *Figure LU-6 – 4 “South 41<sup>st</sup> Avenue”. Encourage residential serving commercial, residential uses, and mixed-use development to increase pedestrian activity and support local businesses.*

Finding: Although the project is located on Capitola Road, it is located within the “South 41<sup>st</sup> Avenue” district of the 41<sup>st</sup> Avenue / Capitola Mall Vision figure in the general plan. The purpose of Verizon’s proposed cellular antenna is to improve coverage and cell capacity in the area surrounding 4400 Capitola Road east of the Capitola Mall. Improved cell services will support pedestrian activity and local businesses in the surrounding area, as a majority of the population uses cellular devices on a daily basis.



**C.M.C. 17.98.080 - B. Restricted Zoning Districts.**

*Wireless communication facilities shall generally be allowed on parcels in nonresidential zoning districts. Wireless communication facilities are prohibited within or five hundred feet of the following zoning districts, subject only to exceptions as described in Section 17.98.080(D) of this section.*

- 1. Single-family residence (R-1);*
- 2. Multiple family residence – Low medium (RM-LM);*
- 3. Multiple family residence – Medium (RM-M);*
- 4. Multiple family residence – High (RM-H);*
- 5. Mobilehome exclusive (MHE);*
- 6. Commercial residential (CR);*
- 7. Parks and open space (P/OS);*
- 8. Public facilities (PF);*
- 9. Transient rental use overlay (TRO).*

**Finding:** The location of the proposed facility relative to setbacks from prohibited districts have been analyzed and considered by staff. The proposed facility is located within the required 500 foot setback of multi-family residential, single-family residential, and commercial retail. However, the applicant has claimed that the City's regulations are too restrictive and are thus prohibiting the carrier from filling a gap in their coverage, pursuant to section 17.98.080-D of the Capitola Municipal Code. Verizon submitted a "significant gap" and "least intrusive means" analysis to prove this. The analysis showed that there is a gap in cell coverage and available data capacity at this location and that the proposed facility would constitute the "least intrusive means" of filling said gap.

**C. Restricted Coastal Areas – School Areas – Skilled Nursing Facility Areas.**

*To the extent that this subsection's coastline protection objective can be accomplished consistent with the Federal Communications Act of 1996 and any other applicable federal or state law, wireless communication facilities shall be prohibited in areas that lie within three thousand feet of the coastline. Wireless communication facilities shall be absolutely prohibited in areas that lie within one thousand feet of the coastline. Wireless communication facilities shall also be prohibited in areas that lie within five hundred feet of a school property or a skilled nursing facility that cares for patients on a long-term basis. No portion of a wireless facility shall extend onto or impede access to a public beach. The restrictions set forth in this subsection are subject to the exceptions set forth in subsection D of this section.*

**Finding:** The proposed wireless facility would be located roughly 2,000 feet from the coastline; it would comply with the 1,000 foot regulation but not the 3,000 foot regulation. The proposed facility will be located over 500 feet from school areas and skilled nursing facilities. The proposal complies with the restricted school areas and nursing facilities, but not the coastal areas.

*D. Exceptions to Restricted Areas.*

*Wireless communication facilities may be sited in the restricted zoning and coastal areas described above only in situations where the applicant can prove that:*

- 1. The proposed wireless communication facility would eliminate or substantially reduce one or more significant gaps in the applicant carrier's network; and*
- 2. There are no viable, technically feasible, and environmentally (e.g., visually) equivalent or superior potential alternatives (i.e., sites/facility types) outside the restricted zoning districts or coastal areas that could eliminate or substantially reduce said significant gap(s).*

Finding: The proposed facility would be sited within restricted zoning areas. However, the applicant submitted a "significant gap" and "least intrusive means" analysis to prove that the subject location is necessary. The analysis showed that there is a gap in cell coverage and available data capacity at this location and that the proposed facility would constitute the "least intrusive means" of filling said gap.

*E. Compliance with FCC Regulations.*

*Wireless communication facilities shall comply with all Federal Communication Commission (FCC) rules, regulations, and standards. Every two years the wireless telecommunications service provider shall submit to the director of community development: (1) a certification by a licensed engineer that the emissions are within the current FCC standards; and (2) a report on the level of cumulative radio frequency emissions within an eight hundred-foot radius from the subject antenna.*

Finding: Condition # 5 been included to require compliance with FCC regulations. Every two years the applicant must submit documentation from a licensed engineer showing that emissions are within the current FCC standards.

*F. Co-location.*

*Where technically, legally, and fiscally feasible, co-location of new wireless communication facilities onto existing telecommunication ground-mounted and freestanding monopole towers shall be required. Co-location may require that height extensions be made to existing towers or wireless telecommunications facilities to accommodate additional users, or may involve constructing new multi-user facilities that replace existing single-user capacity towers.*

Finding: There are no existing cell sites within Verizon's proposed search ring, so co-locating on to an existing site is not an option. Verizon submitted a Collocation Statement as a part of their submittal package, which explains that they are open to other service providers collocating on this site as long as it is technically feasible. Verizon will cooperate with the City in the event of a future proposed collocation project.

*G. Visual Effect. All proposed wireless telecommunications facilities shall be located so as to minimize their visual impact to the maximum extent feasible. Measures to achieve this objective may include but are not limited to the following:*

*1. The applicant shall use the smallest and least visible antennas feasible to accomplish the owners/operator's coverage objectives. All wireless telecommunications facilities proposed for locations where they would be readily visible from the public right-of-way or from the habitable living areas of residential units within one hundred feet shall incorporate appropriate techniques to camouflage or disguise the facility, and/or blend it into the surrounding environment, to the extent feasible.*

Finding: Staff included Condition # 6 to require non-reflective finishing of equipment to ensure that the visual effect of the proposed wireless facility is minimized to the maximum extent feasible. Staff feels that the proposed antenna facility will have a minimal impact due to the antenna facilities being just two feet in height and it being proposed on an existing two-story building rooftop. The new facility will be slightly visible from Capitola Road, but will not be visually intrusive due to the existing line of trees separating the building from Capitola Road. The new equipment would mimic the design of an existing rooftop vent, and is not located in a sensitive view corridor.

*2. Facilities shall be compatible in scale and integrated architecturally with the design of surrounding buildings or the natural setting. Wireless telecommunication facilities located on historic features (as defined in Chapter 17.87), a national or California registered historic building, or within a designated historic district, shall be limited to facade-mounted facilities only and integrated architecturally with the style and character of the structure or otherwise made unobtrusive. No wireless communications facility shall be sited such that its design and/or construction will damage an archeological site.*

Finding: Staff included Condition # 6 to require non-reflective finishing of equipment to ensure that the visual effect of the proposed wireless facility is minimized and that the new antenna equipment will mimic the design of a rooftop vent. The building at 4400 Capitola Road is not considered an historic structure and the two foot tall antennas will not be visually intrusive.

*3. Whenever possible, base transceiver stations, equipment cabinets and buildings, back-up generators, and other equipment associated with building-mounted antennas should be installed within the existing building envelope. If this is not feasible, the equipment shall be as low profile, screened, fenced, landscaped, painted, or otherwise treated architecturally to minimize its appearance from off-site locations and to visually blend with the surrounding natural and built environment. Equipment buildings should be designed in an architectural style and constructed of exterior building materials that are consistent with surrounding development and/or land use setting (if applicable) and should be a visually pleasing feature.*

Finding: The proposed equipment cabinet will be located on the ground, adjacent to the south-eastern corner of the building and underneath the existing roof canopy. The equipment cabinet will not be visible from Capitola Road. Staff included Condition # 6 to require non-reflective finishing of equipment to ensure that the visual effect of the proposed wireless equipment is minimized.

*4. All ground-mounted base transceiver stations, equipment cabinets, and utility panels for telecommunications facilities shall be limited to a maximum height of six feet above grade unless other techniques are adopted to ensure minimal visual impact. Base transceiver stations, equipment cabinets, and utility panels that are taller may be partially buried underground or installed by use of another technique to maintain the six foot height limit. Greater height may be granted upon a finding that it is not possible to meet the height limitation and that adequate screening of the equipment is provided.*

Finding: The proposed equipment cabinet will be located on the ground, below the rooftop antennas. The equipment cabinet would be six feet-two inches tall, but will be located behind the existing building and will have a minimal visual impact. Staff has included Condition # 12 to require the equipment cabinet to be either partially buried or to be reduced in height to comply with the six foot height regulation.

*5. No advertising signage or identifying logos shall be displayed on wireless telecommunications facilities, except for small identification plates used for emergency notification or hazardous or toxic materials warning.*

Finding: Condition # 9 requires emergency contact signage. There is no other signage proposed with this application.

*6. Applicants are encouraged to consider providing architectural treatments and to use "stealth techniques" to reduce potential visual impacts for all telecommunication facilities. Stealth techniques are especially encouraged in areas easily visible from a major traffic corridor or commercial center or in residential areas. Stealth techniques may be required as conditions of approval when determined to be necessary to mitigate adverse visual impacts. However, under no circumstances will "in wall" cell towers, i.e., cell towers constructed partially or wholly within the walls of a building, be permitted.*

Finding: The proposal constitutes two, two-foot tall antennas that will extend two feet-six inches past the existing two-story roof line. The visual impacts from Capitola Road are very minimal due to the small size of the antennas, height of the existing building, existing tree canopy which screens the building from Capitola Road, and required non-reflective matte finish (per Condition # 6). Staff feels that further screening is not necessary.

*7. All facilities shall be designed to be resistant to and minimize opportunities for unauthorized access, climbing, vandalism, graffiti, and other conditions that would result in hazardous conditions, visual blight, or attractive nuisances. The director may require the provision of warning signs, fencing, anti-climbing devices, or other techniques to prevent unauthorized access and vandalism when, because of their location and/or accessibility, antenna facilities have the potential to become an attractive nuisance. The design of the fencing and other access control devices shall be subject to design review.*

Finding: Condition # 9 requires warning and safety signage and Condition # 10 requires that the facility to be maintained graffiti free. The proposed facility would be located on an existing rooftop, which will help restrict unauthorized access.



*H. Landscaping. Landscaping may be required to visually screen wireless communications facilities from adjacent properties or public view and/or to provide a backdrop to camouflage the facilities. All proposed landscaping is subject to the director's review and approval.*

*Landscaping guidelines include, but are not limited to, the following:*

- 1. To the extent feasible, existing on-site vegetation shall be preserved or improved, and disturbance of the existing topography shall be minimized. Additional trees and other vegetation shall be planted and maintained around the facility, in the vicinity of the project site, and along access roads in appropriate situations where such vegetation is deemed necessary to provide screening of wireless communications facilities and related access roads.*
- 2. All trees used in landscaping shall be a minimum of fifteen gallons in size and all shrubs in a minimum of five gallons, unless otherwise approved.*
- 3. Existing trees and other screening vegetation in the vicinity of the proposed facility and associated access-ways shall be protected from damage both during and after construction.*
- 4. Where applicable, the applicant shall enter into a landscape performance and maintenance agreement with the city to ensure the installation and establishment of required landscaping. This agreement shall be secured by financial guarantees acceptable to the director in an amount equal to one hundred fifty percent of the estimated cost of materials and labor for required improvements. The duration of the landscape maintenance agreement shall be for the length of the permit.*
- 5. All landscape design shall meet the water efficiency landscaping requirements of Chapter 17.97 of this title, including installing or upgrading existing irrigation systems if necessary.*

Finding: There is no proposed landscaping modifications associated with this proposal. The proposed antennas are located on a rooftop, and the proposed equipment cabinet would be behind the building, away from Capitola Road. There is no landscaping proposed. The existing landscaping in between Capitola Road and the existing building at 4400 Capitola Road will provide screening for the proposed antennas. If the applicant later decides to remove landscaping, they must meet the above requirements.

*I. Access Roads.*

*All wireless communications facilities shall use existing access roads, where available. Unless visual impacts can be adequately mitigated, no new access roads shall be allowed with any proposed wireless communications facility.*

Finding: No new access roads are proposed therefore this criteria is not applicable.

*J. Minor Modifications.*

*Minor modifications to wireless communications facility equipment design, location, height, and other elements may be allowed, subject to the approval of the director, if such modifications are in keeping with the architectural statement and layout design of the original approval, and meet the requirements of this chapter. (Ord. 862 § 1, 2003)*

Finding: This proposal involves a new wireless site, not a modification to an existing facility. This criteria is not applicable.

17.98.080 Location standards.

A. Location preference for wireless communications facilities should be given to the following locations:

1. Industrial or commercial sites;
2. Facilities attached or sited adjacent to existing structures. Appropriate types of existing structures may include, but not be limited to, buildings, telephone and utility poles, signage and sign standards, traffic signals, light standards and flagpoles;
3. Sites that are not highly visible from adjacent roadways, public areas, parks, schools, or other visually sensitive areas, as determined by the director.

Finding: The applicant and staff have analyzed the preferred locations for wireless communications facility. The proposal is located upon an existing two-story office building, which is the second preferred location standard. The site would be visible from adjacent Capitola Road. Although the new two foot tall antennas will be slightly visible, it will not be visually intrusive. The new equipment will be painted with a non-reflective matte finish (Condition #6), and is not located in a sensitive view corridor. The proposal conforms to the location standards.

*B. A wireless communications facility shall not be located in any non-residential zoning district unless the proposed facility is located as far away as is feasible from the property lines of restricted zoning districts as described in Section 17.98.080, as determined by the director and in no event less than three hundred feet.*

Finding: The location of the proposed facility relative to setbacks from prohibited districts have been analyzed and considered by staff. The proposed facility would be located within the required 300 foot setback of restricted residential zones; the facility would be 200 feet from multi-family residences (zoned Planned Development) due south and 290 feet from residences (zoned Residential Multi-family Low-medium density) to the north. However, the applicant has claimed that the City's regulations are too restrictive and are thus prohibiting the carrier from filling a gap in their coverage. Verizon submitted a "significant gap" and "least intrusive means" analysis to prove this. The analysis showed that there is a gap in cell coverage and available data capacity at this location and that the proposed facility would constitute the "least intrusive means" of filling said gap.

*C. When feasible and in conformance with other provisions of this chapter, wireless communications providers shall be encouraged to locate their wireless communications facilities on publicly owned or controlled property or right-of-way.*

Finding: The applicant has proposed to locate the new wireless facility on private property, outside of the public right-of-way. Verizon explained that the nearby utility poles within the Capitola Road right-of-way would not be feasible to locate their facility on to.

*D. Amateur radio facilities are prohibited on public property in any zoning district, unless the facility meets the requirements of Section 17.98.030(B) of this chapter. (Ord. 862 § 1, 2003)*

Finding: This proposal does not constitute an "amateur radio facility", thus section D does not apply.

*17.98.100 Preferred antenna siting and mounting techniques.*

*The following wireless telecommunications facilities and mounting techniques are listed in order of preference:*

- A. Facade-mounted facilities;*
- B. Roof-mounted facilities;*
- C. Ground-mounted facilities;*
- D. Freestanding monopole facilities. (Ord. 862 § 1, 2003)*

Finding: The proposal is for roof-mounted facility. This is not the most preferred siting method, as the municipal code would prefer façade-mounted facilities.

*17.98.120 Roof-mounted wireless telecommunication facilities.*

*A. Roof-mounted antennas are discouraged on residential buildings and are not allowed unless a finding can be made that no other reasonable alternative is available that meets the service requirements of the service provider.*

Finding: The proposed roof-mounted facility would be located on an existing office building, not on a residential building.

*B. Roof-mounted antennas shall not be allowed when they are placed in locations where they significantly affect scenic views. However, such facilities may be allowed with incorporation of appropriate stealth techniques.*

Finding: The proposed new wireless facility would consist of two, two foot tall antennas on an existing roof top at 4400 Capitola Road. The proposal will not affect scenic views.

*C. The height of roof-mounted wireless communications facility shall be based on a visual analysis demonstrating that views of the facility are minimized or are substantially screened from residential land uses, or other sensitive land uses such as parks, schools, or major streets, and on an engineering analysis justifying the height of the proposed wireless communications facility. The director may require an independent review, paid for in advance by the applicant, to evaluate the applicant's request. Factors to be considered are: whether or not another site exists where the standards can be met; whether there is another method of installation that would result in a project that complies with the standards; whether the addition of another wireless telecommunications facility would allow the reduction in height of the proposed facility; and whether there is any other technically feasible method of siting the facility that would reduce the height. If it is determined that the additional height is necessary, additional screening may be required to mitigate adverse visual impacts.*

Finding: The proposed antennas would be two feet tall and would be screened within a metal canister. The proposal will not be a visual detriment to nearby residential and sensitive land uses.

*D. All roof-mounted antennas shall be located in an area of the roof where the visual impact is minimized. Screening panels may be used to mitigate visual impacts but must be designed to blend with the architecture of the building in terms of scale, material and color. The cost to provide such screening of visual equipment shall not by itself provide justification to allow conspicuous equipment or antennas to remain visible.*

Finding: The two foot tall antenna proposal would be centered within the existing building rooftop and would project two feet-six inches above the existing roof line. The antennas will be screened within a canister structure, painted with a non-reflective matte finish, and will be only slightly visible. There are existing trees along Capitola Road that would help screen the facility.

*E. All roof-mounted facilities shall be painted with a non-reflective matte finish using an appropriate color that blends with the backdrop. The final choice of colors shall be determined by the community development department on a case-by-case basis, in accordance with this subsection.*

Finding: This requirement is mandated through Condition of Approval #6.

*F. Whenever feasible, all rooftop equipment installations shall be set back such that they are not viewed from the street. The equipment cabinets, base transceiver stations, cables and other appurtenant equipment, if located on the rooftop of buildings, shall be so located as to be minimally visible from public rights-of-way. Roof screening in compliance with this section may be required in cases where equipment is considered a visual impact.*

Finding: The proposal would be located on the roof-top of an existing two-story building, setback over 20 feet from the front line of the building along Capitola Road. The proposed antennas will be slightly visible from Capitola Road, however an existing row of trees along Capitola Road will help screen the proposed facility. The equipment cabinet is proposed on the southern (back) side of the existing building, at ground level, and will not be visible from Capitola Road.

*G. Notwithstanding any other provision of this section, no roof-mounted antennas, including support structures, shall exceed six feet in height above the parapet of the roof. (Ord. 862 § 1, 2003)*

Finding: The proposed antenna structures project two feet-six inches past the existing roof line. The height limits are met.





## STAFF REPORT

TO: PLANNING COMMISSION

FROM: COMMUNITY DEVELOPMENT

DATE: AUGUST 4, 2016

SUBJECT: **419 Capitola Avenue#16-101**      **APN: 035-131-26**

Design Permit and Variance for front and side yard setbacks for a three story duplex located in the CN (Neighborhood Commercial) Zoning District.

This project is in the Coastal Zone and requires a Coastal Development Permit that is appealable to the California Coastal Commission after all possible appeals are exhausted through the city.

Environmental Determination: Categorical Exemption

Property Owners: Daniel Gomez and Daniel Townsend, filed 5/16/2016

Representative: Daniel Gomez and Daniel Townsend

### **APPLICANT PROPOSAL**

The application includes a design permit and variance to build a new three story duplex at 419 Capitola Avenue located in the CN (Neighborhood Commercial) zoning district. As proposed, the application requires a variance for front and side yard setbacks. The existing structure is a two story duplex with a garage on the bottom floor and two residential units within the second story. The existing structure would be demolished.

### **BACKGROUND**

The applicant previously submitted a conceptual review for future redevelopment of the site. The conceptual review included four redevelopment concepts. On March 17, 2016, the Planning Commission provided comments and direction on the conceptual review application. Sheet A4.1 of the current application summarizes the four development concepts presented at the March 17<sup>th</sup> hearing. Options 2 and 3 were favored by the Planning Commission, with direction to further articulate the building through architectural details. The current application is based on option 2 of the conceptual review. The design extends the front of the building closer to the street and adds a new third story addition.

### **Architectural and Site Review**

The above matter was reviewed by the Architectural and Site Review Committee on May 25, 2016. The following direction was provided to the applicant:

- Building Official Brian Van Son informed the applicant of the following requirements: base flood elevation needs to be determined by a licensed surveyor, a no rise study must be submitted, firewalls must be 1 hour rated, sidewalk and street cuts must comply with accessibility standards, and the Soquel Creek Water District will require an additional water meter.
- Public Works Representative, Danielle Uharriet outlined the necessary stormwater and sidewalk requirements.

- Local Architect, Frank Phanton had no concerns with privacy and thought the design incorporated good articulation.
- Local Landscape Architect, Megan Bishop requested that the applicant plant a couple trees.
- Senior Planner, Katie Cattan informed the applicant the utilities will be required to be underground to the nearest pole and required the applicant to submit a streetscape and shadow study.
- Local Historian, Carolyn Swift informed the applicant that the building is not historic.

### **SITE AND ZONING ANALYSIS**

The following table outlines the zoning code requirements for development in the CN (Neighborhood Commercial) Zoning District relative to the application.

#### **CN (Neighborhood Commercial) Development Regulations**

<b>Coastal</b>		
<b>Is project within Coastal Zone?</b>		Yes
<b>Is project within Coastal Appeal Zone?</b>		Yes
<b>Development Standards</b>	<b>Existing</b>	<b>Proposed</b>
<b>Use</b>	Duplex	Duplex
<b>Is CUP required?</b>		No
<b>Height: 27 ft</b>		27'
<b>Lot Area:</b> There are no specific minimum lot area required except that there shall be sufficient area to satisfy any off-street parking and loading area requirements.		Complies
<b>Lot Coverage: There shall be no specific maximum lot coverage, except as follows:</b> <p>A. Sufficient space shall be provided to satisfy off-street parking and loading area requirements, except that all parking may be provided within a structure.</p> <p>B. Front yard and open space requirements shall be satisfied.</p>		Variance for front yard setback requested.
	<b>Required</b>	<b>Proposed</b>
<b>Front Yard Setback:</b> Allow for 15 foot landscape strip.	15 feet	2 feet, Variance Request
<b>Side Yard Setback:</b> 10% of the lot width for the first floor and fifteen percent of the lot width for the second floor.	10% of lot width for the 1 <sup>st</sup> floor Lot Width: 28.50' Setback: 3 feet 15% of the lot width for the 2 <sup>nd</sup> floor 2 <sup>nd</sup> floor setback: 4 feet	1 <sup>st</sup> Floor: 0.5 feet <b>Variance Requested</b>  2 <sup>nd</sup> Floor: 0.5 feet <b>Variance Requested</b>
<b>Rear Yard Setback:</b> 20% of lot depth.	20% of lot depth Lot depth: 53.25 feet Setback: 10.6 feet	11 feet
<b>Parking</b>	<b>Required</b>	<b>Proposed</b>
Dwellings, apartments and condominiums (townhouse) of more than four units, one covered space for each unit, plus one and one-half additional spaces on the site for each dwelling unit. Each regular space must be a minimum of nine feet by eighteen feet.	4 spaces required 2 covered	4 covered parking spaces <b>Complies</b>

Forty percent of the spaces may be compact spaces of eight feet by sixteen feet.		
<b>Landscaping.</b> Five percent of the lot area shall be landscaped to ensure harmony with adjacent development in accordance with architectural and site approval standards		491 sf Open Space <b>Complies</b>
<b>Accessory Building</b>		No
<b>Underground Utilities – required with 25% increase area</b>		Required

## **DISCUSSION**

The property is within the block of Capitola Avenue that extends from the trestle to Blue Gum Avenue. The following unique development patterns exist within this block:

1. Property lines that are not at a right angle to the street.
2. Substandard lot depths. The lot depths are on average 50 feet deep rather than typical CN lots that range from 80 to 100 feet of depth.
3. The majority of structures do not comply with the zone setbacks, including the front yard setback.
4. The block is located in a highly visible gateway into the Village.

The property is currently developed with a two-story building with a garage on the bottom floor and two residential units on the second story. There is a deck on the second story. The existing structure does not comply with front and side yard setbacks. The proposed design maintains the non-conforming setbacks and intensifies the non-conformities by extending the building closer to the street.

## **Variance**

The applicant is requesting a variance to allow the duplex to be built two feet from the front property line and within one foot of the side property line. Within the CN zone, the required front yard setback is 15 feet and the side yard is three feet on the first floor and 4 feet on the second floor.

Pursuant to Municipal Code chapter 17.66.090, the Planning Commission may grant a variance permit when it finds that there are special circumstances applicable to the subject property associated with the size, shape, topography, location, or surroundings of the property. As stated previously, this block of Capitola is unique in that the lots are substandard in size, property lines are not at right angles to the street, and the majority of development within the block does not comply with setback. The Planning Commission must also make findings that the grant of a variance would not constitute a grant of special privilege inconsistent with the limitations upon other properties in the vicinity and zone. Many of the surrounding properties already enjoy the privileges of decreased front and side yard setbacks.

## **Design**

The new three-story building incorporates contemporary design features. The three-stories are differentiated through materials with stucco on the first story and aged ash horizontal siding on the second and third stories. A slightly recessed and angled bronze anodized waterjet cut panel extends above the entryway to the midpoint to the third story. The three foot wide panel will add a unique architectural detail that breaks the massing across the front elevation with the slight

recess and creates a defined look. Additional aluminum paneling will be incorporated into the side elevations toward the front of the building, again adding to the architectural features as viewed from Capitola Avenue. The building is further articulated with third story wall stepped 7 feet back with the incorporation of decks for each unit. The rear of the building includes a 1 ½ foot cantilever for a stair well creating a differentiation in the wall plane and break in the massing. All windows and doors are bronze anodized aluminum, including the garage door. Stained western cedar will be incorporated into the front wall plane of the third story.

### **CEQA REVIEW**

Section 15303 of the CEQA Guidelines exempts new construction of duplex dwelling units in urbanized areas. This project involves the redevelopment of a duplex in the CN (neighborhood Commercial) Zoning District. No adverse environmental impacts were discovered during review of the proposed project.

### **RECOMMENDATION**

Staff recommends that the Planning Commission **approve** application #16-101 and associated variance, based on the following Conditions and Findings for Approval.

### **CONDITIONS**

1. The project approval consists of redevelopment of the existing duplex at 419 Capitola Avenue. The existing structure will be demolished and a new duplex will be built in its place. The first floor garage will be 960 square feet of unconditioned space. The second story is 904 square feet and the third floor is 710 square feet. The total enclosed square footage of the new building is 2,574 square feet. There is also 269 square feet of balcony proposed. A variance has been granted for front and side yard setbacks. The proposed project is approved as indicated on the final plans reviewed and approved by the Planning Commission on August 4, 2016, except as modified through conditions imposed by the Planning Commission during the hearing.
2. Prior to construction, a building permit shall be secured for any new construction or modifications to structures authorized by this permit. Final building plans shall be consistent with the plans approved by the Planning Commission. All construction and site improvements shall be completed according to the approved plans
3. At time of submittal for building permit review, the building plans must show that the existing overhead utility lines will be underground to the nearest utility pole.
4. At time of submittal for building permit review, the Conditions of Approval must be printed in full on the cover sheet of the construction plans.
5. At the time of submittal for building permit review, Public Works Standard Detail Storm Water Best Management Practices (STRM-BMP) shall be printed in full and incorporated as a sheet into the construction plans. All construction shall be done in accordance with Public Works Standard Detail Storm Water Best Management Practices (STRM-BMP).
6. Prior to making any changes to approved plans, modifications must be specifically requested and submitted in writing to the Community Development Department. Any significant changes to the size or exterior appearance of the structure shall require Planning Commission approval.



7. Prior to issuance of building permit, all Planning fees associated with permit # 16-101 shall be paid in full.
8. Prior to issuance of building permit, Affordable housing in-lieu fees shall be paid as required to assure compliance with the City of Capitola Affordable (Inclusionary) Housing Ordinance.
9. Prior to issuance of a building permit, the applicant must provide documentation of plan approval by the following entities: Santa Cruz County Sanitation Department, Soquel Creek Water District, and Central Fire Protection District.
10. Prior to issuance of building permits, a drainage plan, grading, sediment and erosion control plan, shall be submitted to the City and approved by Public Works. The plans shall be in compliance with the requirements specified in Capitola Municipal Code Chapter 13.16 Storm Water Pollution Prevention and Protection.
11. Prior to issuance of building permits, the applicant shall submit a stormwater management plan to the satisfaction of the Director of Public Works which implements all applicable Post Construction Requirements (PCRs) and Public Works Standard Details, including all standards relating to low impact development (LID).
12. Prior to any land disturbance, a pre-site inspection must be conducted by the grading official to verify compliance with the approved erosion and sediment control plan.
13. Prior to any work in the City road right of way, an encroachment permit shall be acquired by the contractor performing the work. No material or equipment storage may be placed in the road right-of-way.
14. During construction, any construction activity shall be subject to a construction noise curfew, except when otherwise specified in the building permit issued by the City. Construction noise shall be prohibited between the hours of nine p.m. and seven-thirty a.m. on weekdays. Construction noise shall be prohibited on weekends with the exception of Saturday work between nine a.m. and four p.m. or emergency work approved by the building official. §9.12.010B
15. Prior to a project final, all cracked or broken driveway approaches, curb, gutter, or sidewalk shall be replaced per the Public Works Standard Details and to the satisfaction of the Public Works Department. All replaced driveway approaches, curb, gutter or sidewalk shall meet current Accessibility Standards.
16. Prior to issuance of a Certificate of Occupancy, compliance with all conditions of approval shall be demonstrated to the satisfaction of the Community Development Director. Upon evidence of non-compliance with conditions of approval or applicable municipal code provisions, the applicant shall remedy the non-compliance to the satisfaction of the Community Development Director or shall file an application for a permit amendment for Planning Commission consideration. Failure to remedy a non-compliance in a timely manner may result in permit revocation.
17. This permit shall expire 24 months from the date of issuance. The applicant shall have an approved building permit and construction underway before this date to prevent permit expiration. Applications for extension may be submitted by the applicant prior to expiration pursuant to Municipal Code section 17.81.160.

18. The planning and infrastructure review and approval are transferable with the title to the underlying property so that an approved project may be conveyed or assigned by the applicant to others without losing the approval. The permit cannot be transferred off the site on which the approval was granted.
19. Upon receipt of certificate of occupancy, garbage and recycling containers shall be placed out of public view on non-collection days.
20. In any case where the conditions to the granting of a permit have not been or are not complied with, the community development director shall give notice thereof to the permittee, which notice shall specify a reasonable period of time within which to perform said conditions and correct said violation. If the permittee fails to comply with said conditions, or to correct said violation, within the time allowed, notice shall be given to the permittee of intention to revoke such permit at a hearing to be held not less than thirty calendar days after the date of such notice. Following such hearing and, if good cause exists therefor, the Planning Commission may revoke the permit.

## **FINDINGS**

- A. **The application, subject to the conditions imposed, secures the purposes of the Zoning Ordinance, General Plan, and Local Coastal Plan.**  
Community Development Staff, the Architectural and Site Review Committee, and the Planning Commission have all reviewed the duplex. The project conforms to the development standards of the CN (Neighborhood Commercial) zoning district with the granting of a variance for front and side yard setbacks. Conditions of approval have been included to carry out the objectives of the Zoning Ordinance, General Plan and Local Coastal Plan.
- B. **The application will maintain the character and integrity of the neighborhood.**  
Community Development Staff, the Architectural and Site Review Committee, and the Planning Commission have all reviewed the project. The project as designed maintains the character and integrity of the neighborhood. The proposed addition with front entryway compliments the existing development pattern in the neighborhood.
- C. **This project is categorically exempt under Section 15303 of the California Environmental Quality Act and is subject to Section 753.5 of Title 14 of the California Code of Regulations.**  
This project involves the redevelopment of a duplex in the CN (Neighborhood Commercial) Zoning District. Section 15303 of the CEQA Guidelines exempts construction of a duplex in an urbanized area.
- D. **Special circumstances applicable to subject property, including size, shape, topography, location or surroundings, the strict application of this title is found to deprive subject property of privileges enjoyed by other properties in the vicinity and under identical zone classification;**  
The project is located in the a block of Capitola Avenue in which the majority of existing structures do not comply with setback due to substandard lot sizes.
- E. **The grant of a variance permit would not constitute a grant of special privilege inconsistent with the limitations upon other properties in the vicinity and zone in which subject property is situated.**

There are many properties within the same block of Capitola Avenue that do not comply with front and side yard setbacks.

**ATTACHMENTS:**

1. 419 Capitola Ave Plans

Prepared By: Katie Cattan  
Senior Planner





A1.2

Existing Plans

419 Residence

APN #: 035-131-26

419 CAPITOLA AVENUE, CAPITOLA, CALIFORNIA 95010

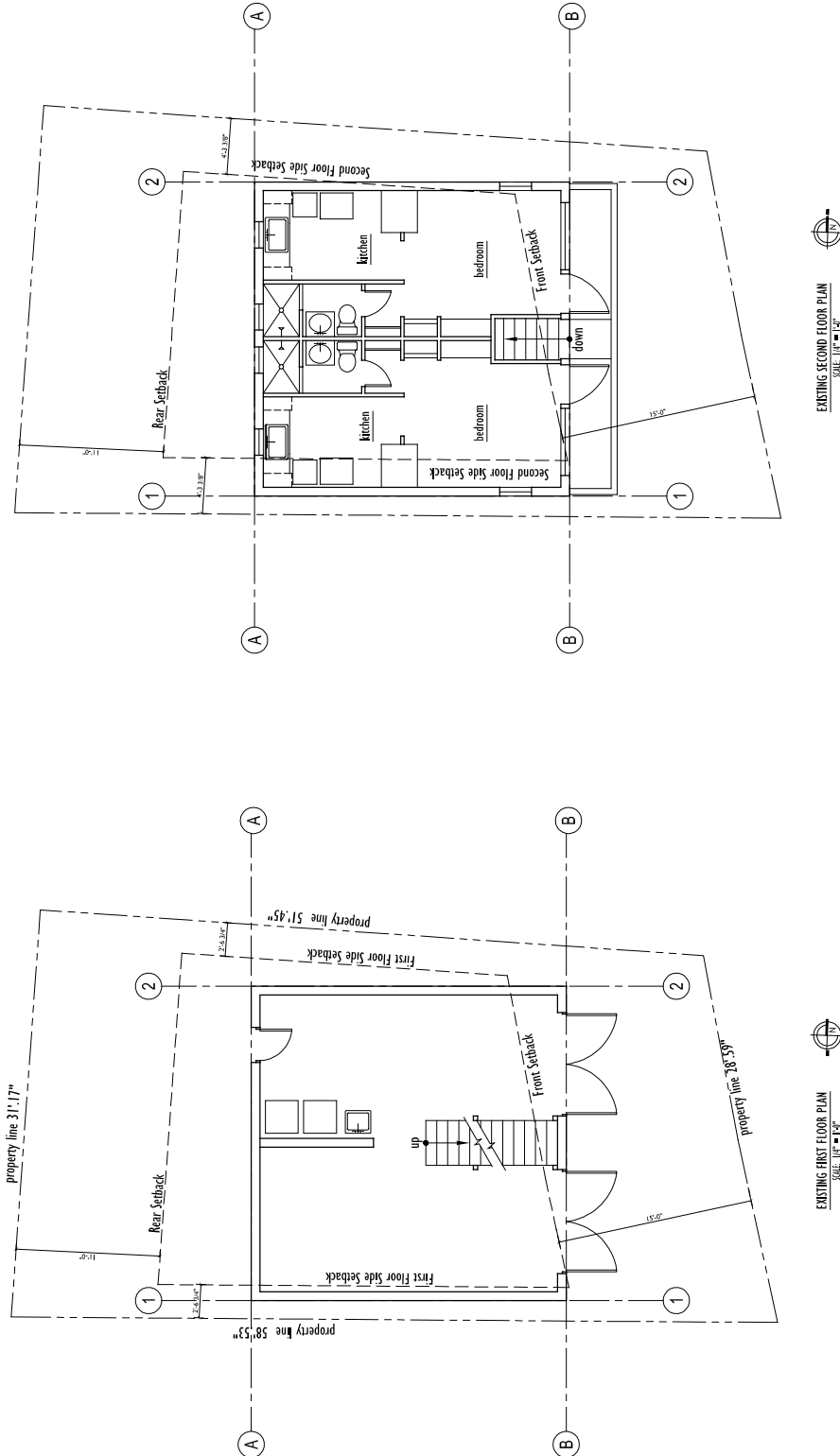
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419 RESIDENCE

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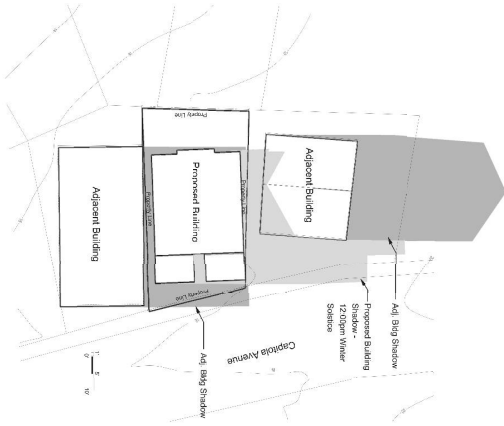




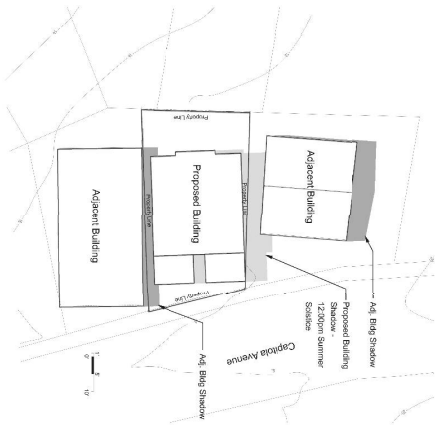
STREETSCAPE ELEVATION  
SCALE: 1/8" = 1'-0"



STREETSCAPE PHOTO COLLAGE  
SCALE: N/A



SHADOW STUDY - WINTER SOLSTICE  
SCALE: 1/8" = 1'-0"



SHADOW STUDY - SUMMER SOLSTICE  
SCALE: 1/8" = 1'-0"

Proposed Floor Plans

419 Residence

419 CAPITOLA AVENUE, CAPITOLA, CALIFORNIA 95010  
ATTN: 055-13-20

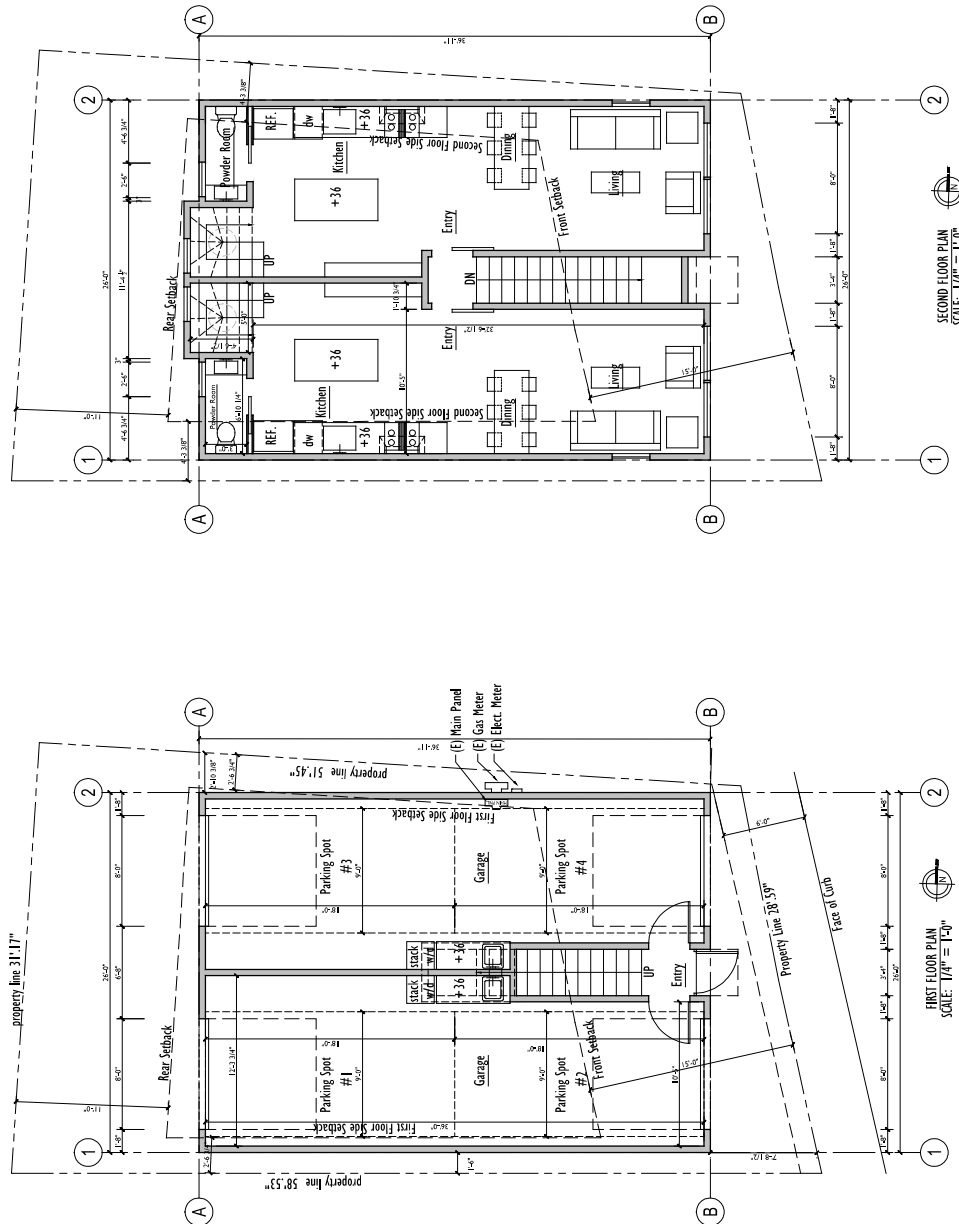
daniel gomez / architect  
daniel townsend / architect

**These architects inc.**

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831.479.9325 (F)  
usearch@illcure.com

419 RESIDENCE

## GENERAL NOTES

[illegible]

A2.2

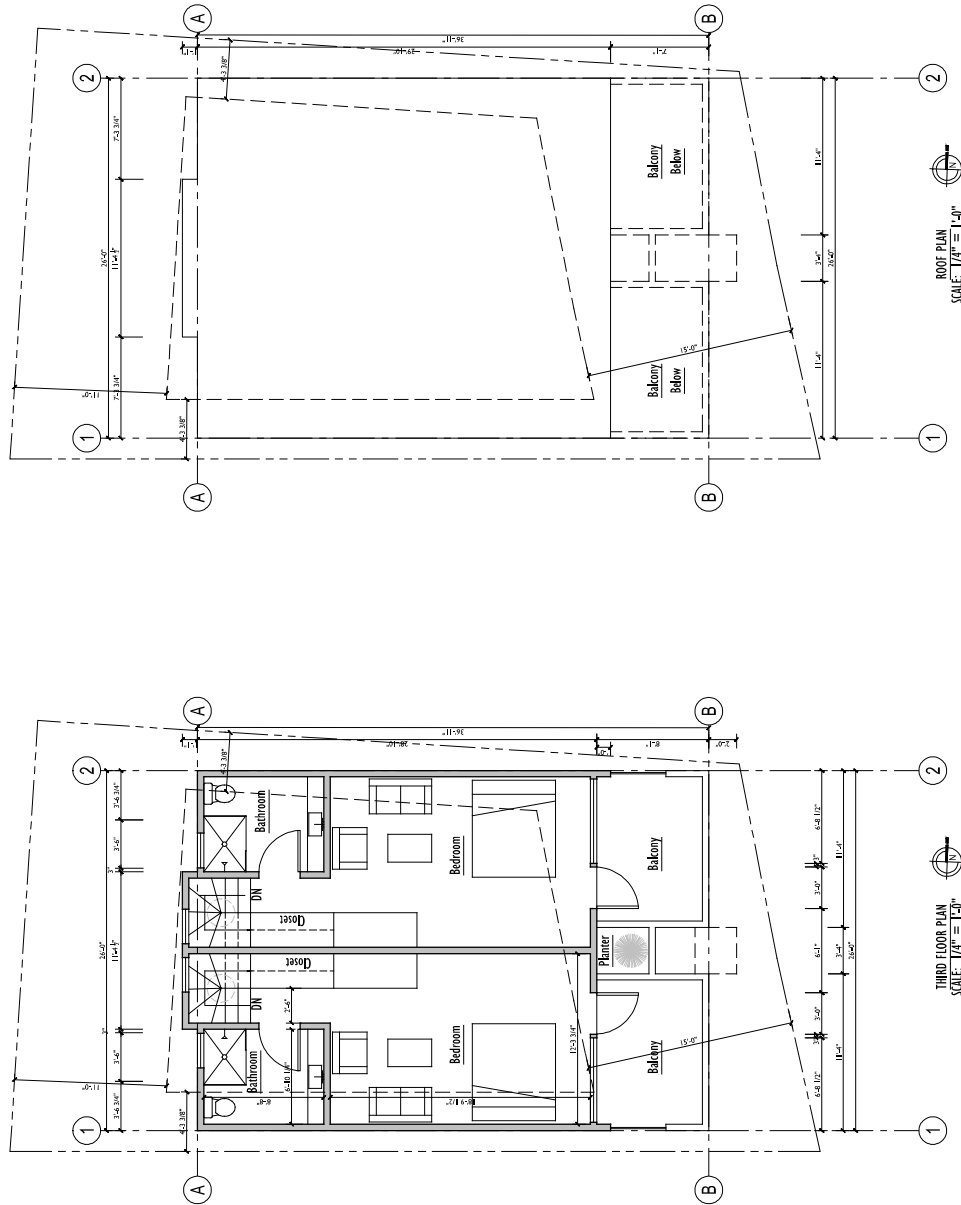
Proposed Floor  
Plans

419 Residence  
APN # 03513126  
419 CAPITOLA AVENUE, CAPITOLA, CALIFORNIA 95010

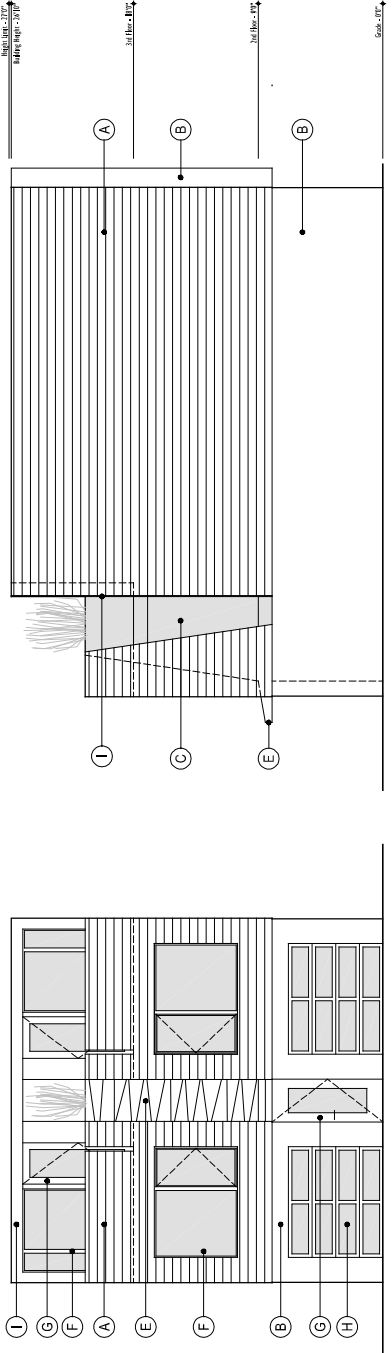
**fuse architects inc.**  
Principals  
daniel gomez / architect  
capicola + callicott  
824.754.5235  
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- GENERAL NOTES**
1. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
  2. CONSTRUCTION TO VERIFY AND CORRECT OF ANY DISCREPANCY BETWEEN THESE PLANS AND THE EXISTING CONDITIONS.
  3. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
  4. PROVIDE 2" MINIMUM WALLS.
  5. PROVIDE 2" MINIMUM WALLS.
  6. PROVIDE 2" MINIMUM WALLS.
  7. PROVIDE 2" MINIMUM WALLS.
  8. PROVIDE 2" MINIMUM WALLS.
  9. PROVIDE 2" MINIMUM WALLS.
  10. PROVIDE 2" MINIMUM WALLS.









## STAFF REPORT

TO: PLANNING COMMISSION  
 FROM: COMMUNITY DEVELOPMENT  
 DATE: AUGUST 4, 2016  
 SUBJECT: **2205 Wharf Road #16-041 APN: 034-141-34**

Minor land division to create two lots of record, design permit for a new Single-Family Residence, and a tree removal permit for the property located at 2205 Wharf Road in the RM-LM (Residential Multi-Family – Low-Medium Density) Zoning District.

This project is not in the Coastal Zone and does not require a Coastal Development Permit.

Environmental Determination: Categorical Exemption

Property Owner: Christopher Wright

Representative: Dennis Norton, filed: 3/14/16

### **APPLICANT PROPOSAL**

The application includes a minor land division to create two lots of record from a single lot of record. The applicant is also seeking a design permit for a new single-family home on the newly created lot located along Wharf Road. There is an existing triplex on the rear lot. A tree removal permit is also required for the removal of a deodar cedar tree. The project is located in the RM-LM (Multiple-Family Low Density) Zoning District.

### **BACKGROUND**

On April 13, 2016, the Architectural and Site Review Committee reviewed the application.

- Committee Architect Frank Phanton had no concerns with the proposed design.
- Landscape Architect Craig Waltz was unable to attend the meeting.
- City Public Works representative Danielle Uharriet, explained that the project is a Tier 1 project and provided specific conditions of approval to be incorporated into the permit. A utility plan was also requested with existing and proposed utilities, a title report with utility easements, and status (public or private) for all utilities.
- City Building representative, explained separation requirements for fire.
- City Planner, Katie Cattan, requested that the applicant modify the existing deck to comply with setbacks to maintain compliance within the minor land division.

### **DISCUSSION**

#### **Subdivision**

The applicant is proposing to subdivide the single 19,854 square foot lot of record into two lots (Attachment A). The minor subdivision will create a flag lot with shared driveway access. The

existing parcel is approximately 114 feet wide by approximately 180 feet deep. Due to existing development on the property, the applicant is proposing a front lot with a rear flag lot. The tentative parcel map identifies the rear lot as Parcel A and the front lot as Parcel B.

### Lot Area and Dimensions

The follow table outlines the lot area and dimension requirements for development in the RM-LM Zoning District relative to the application:

Lot area and Dimensions	
Minimum lot area for a structure containing one or more dwellings units shall be 5,000 sf. Minimum lot width 50 feet; minimum lot depth 100 feet	
Code Requirements	Proposed
Lot Size: 5,000 sf minimum	Parcel A: 14,621 sf (triplex)
	Parcel B: 5,233 sf (single-family proposed)
Lot Width: 50 feet minimum	Parcel A: 80 feet
	Parcel B: 56 feet
Lot Depth: 100 feet minimum	Parcel A: 112 feet complies)
	Parcel B: 94 feet (6 ft less than standard)
Site Area Per Dwelling Unit	
RM-LM: 4,400 sf per dwelling unit	Parcel A: Triplex. 13,200 sf minimum
SF: 5,000 sf per dwelling unit	Parcel B: Single-Family. 5,000 sf minimum

The only requirement that is not satisfied in the application is the minimum lot depth of 100 feet for Parcel B. The applicant is requesting an exception to the 100 feet depth for the 94 foot deep parcel.

### Subdivision Design Standards.

Subdivision applications are reviewed for compliance with Chapter 16 of the Municipal Code. The following analysis includes the underlined design standards for lots (§16.24.170) preceding staff analysis:

A. The size and shape of lots shall be in conformance to any zoning regulations effective in the area of the proposed subdivision. Staff Analysis: The subdivision complies with the minimum area per dwelling unit and minimum lot width. The applicant is requesting an exception to the 100 foot minimum lot depth to 94 feet.

B. The side lines of all lots, so far as possible, shall be at right angles to the street which the lot faces, or radial or approximately radial if the street is curved. Staff Analysis: The access is challenging from Wharf Road due to the significant change in grade. Therefore, shared driveway access is preferred for safety and to avoid excessive grading. The lots are at right angles to the shared driveway, not the street.

C. The Planning Commission may require that building set back lines shall be indicated by dotted lines on the subdivision map. Staff Analysis: The tentative map does not include the setback lines of the zone. All future development must conform to the setbacks established within the zoning district. The application includes the proposed development of a single-family home on the new lot. The existing triplex and new single-family home comply with the setbacks of the zoning district.

D. No lot shall be divided by a city boundary line. Staff Analysis: The entire property is located within the City of Capitola limits.

E. Lots without frontage on a dedicated public street of twenty feet or more will not be permitted. Staff Analysis: The applicant is proposing a flag lot. Parcel A has 20 feet of frontage on Wharf Road. Parcel B has 20 feet of frontage off the shared driveway, but not the dedicated street.

F. Lots other than corner lots may front on more than one street where necessitated by topographic or other unusual conditions. Staff Analysis: Not applicable.

G. In riparian corridors no lots may be created which do not contain adequate building area outside the riparian or stream setback. Staff Analysis: Not applicable.

### RM-LM Development Standards Summary

Development of a single-family home in the RM-LM zone must comply with the development standards of the R-1 zoning district. The following table outlines the development standards of the R-1 zoning district relative to the proposed single-family home on Parcel B.

Use			
Proposed Use		Single Family	
Principal Permitted or CUP?		Principally Permitted	
Development Standards			
Building Height	R-1 Regulation		Proposed
	25'		25'
Floor Area Ratio (FAR)			
Lot Size		5,233 sq. ft.	
Maximum Floor Area Ratio		49 % (Max 2,564 sq. ft.)	
First Story Floor Area		1,164 sq. ft.	
Second Story Floor Area		880 sq. ft.	
Garage		436 sq. ft.	
TOTAL FAR		2,480 sq. ft.	
Yards			
	R-1 Regulation		Proposed
Front Yard 1 <sup>st</sup> Story	15 feet		20 ft.
Front Yard Garage	20 feet		20 ft.
Side Yard 1 <sup>st</sup> Story	10% lot width	Lot width <u>56</u> ft <u>5.7</u> ft. min.	8 ft.
Rear Yard 1 <sup>st</sup> Story	20% of lot depth	Lot depth <u>94</u> ft <u>18.8</u> ft. min.	19 ft.
Encroachments (list all)	Rear and side yard decks on the ground level which are thirty inches or less above grade may encroach into the required setbacks; provided, that these features are setback at least three feet from the property line.		Deck in rear and side yard comply with height and 3' setback requirement
Parking			
	Required		Proposed
Residential (from 2,001 up to 2.600 sq. ft.)	<u>3</u> spaces total <u>1</u> covered		<u>3</u> spaces total <u>2</u> covered



	<u>1</u> uncovered
<b>Underground Utilities: required with 25% increase in area</b>	Required

### RM-LM Development Standards

In establishing a minor land division, the existing conforming structure should maintain compliance with the development standards of the zone. The triplex located on proposed Parcel A, complies with all but one development standard of the RM-LM (Multi-family Low Density) zoning district with the proposed new property lines. An existing porch encroaches in to the side yard setback. The following table outlines the development standards of the RM-LM zoning district relative to the proposed minor land division.

Site Area per dwelling unit		
Lot Size		Parcel A: 14,644 sf
Minimum area per unit: 4,400 sf		4,400 sf per unit
Triplex		13,200 sf minimum
Development Standards		
Height	30 ft	23 ft
Lot Coverage	40% (5,941 sf)	2,535 sf
Front yard, First story	15 ft	25 ft
Front yard, Garage	20 ft	68 ft
Front Yard, Second Story	15 ft + 2% of lot depth	25 ft
Side Yard, First story	10% of lot width (9ft minimum)	9 ft
Side Yard, Second story	12% of lot width (11' minimum)	n/a
Encroachments	Decks may encroach 2'	Deck encroaches 4' 2' of deck to be removed.
Landscaping and Open Space		
Landscaping: Screen planting and additional landscaping shall be encouraged in all yard areas to insure privacy for all residents.		The private open space for each unit is defined by either a fence or a deck.
Usable open space: Not less than 50% of the required rear yard shall be developed as usable open space, fully landscaped and accessible to the residents of the structure on the site. The least dimension of this usable open space shall be fifteen feet. Fully developed roof terraces and roof gardens shall be allowed to provide up to one-half the area of usable open space.		The rear yard is shared usable open space for use by all tenants.
Private open space: Minimum private open space in the form of screened terraces, decks or balconies shall be provided as follows: 1. Not less than fifty percent of dwelling units shall be provided with individual open space; 2. Each private open space shall have a minimum area of forty-eight square feet, with a least dimension of four feet.		All units have private open space.
Parking		
	Required	Proposed
Triplex	2 spaces per unit 1 covered	9 spaces total 3 covered

	<b>1</b> uncovered	<b>6</b> uncovered
<b>Garage and Accessory Bldg.</b>		
<b>Garage</b>		Complies
<b>Accessory Building</b>		N/A
<b>Underground Utilities: required with 25% increase in area</b>		N/A

### Design Permit

2205 Wharf Road is in the Multi-Family, Low Density (RM-LM) zoning district. The street has a mix of housing types including single-family homes, secondary dwelling units, multi-family dwellings, and mobile homes. The proposed triplex and single-family home will complement the existing land uses in the nearby vicinity.

Currently, there is one existing triplex on parcel A. The structure is not listed on the 2005 City of Capitola Historic Structures List or the 1986 Capitola Architectural Survey. The triplex complies with all development standards of the RM-LM zone (lot coverage, height, open space, and parking) except for side yard setbacks. The existing deck on the side of the triplex will be reduced in size by two feet to comply with the required nine foot setback.

There is a significant change in grade of ten feet from street to the building pad of Lot B in the front and an additional 5 feet in grade to Lot A. The driveway will be repositioned slightly to accommodate Lot B, but overall follows the existing shape across the front of the property then curving to follow the side lot line to the existing home on the rear lot. Minor grading changes will take place for the driveway but excavation is limited.

The change in grade combined with the existing vegetation along Wharf Road creates privacy within the lot and natural screening from the street. The new single-family home will not have a presence along the street. Each of the residences is oriented toward the shared driveway rather than the street. This orientation is practical for the purpose of safe access and lack of visibility from Wharf Road.

The new single-family home is a two story residence in which the second story is setback from the first. The home will be finished with stained wood shingle siding and white wood trim. A 12-inch belly band will be painted white and visually separate the two stories. All windows and doors will have a four inch trim. The new home will have a redwood deck by the entrance and on the west side of the home around the existing coastal redwood tree.

There are six mature trees on the site. The owner is proposing to remove two trees due to proximity of the trees to the new home, one deodar cedar and one apple tree. A tree removal permit is required for the deodar cedar due the mature 30 inch diameter. Fruit trees do not require a tree removal permit. The owner plans to plant four white crape myrtle, multi-trunk trees between the driveway and the home. This is double the required replanting for a tree removal ratio of two plantings per one removal.

The landscape plan includes additional planting around the periphery of the property including a mix of grasses, perennials, and shrubs. Boulders will be placed within the landscape area in front of the new single-family home. A new six foot high fence is proposed along the rear property line.

Capitola Municipal Code 12.04.170 requires the construction of curb, gutter, and sidewalk on development projects except in areas deemed sidewalk exempt by the City. This property is not

located in a sidewalk exempt area. Currently, there are not sidewalks along this stretch of Wharf Road. Condition of approval #5 requires the owner enter into a deferred sidewalk agreement with the City to ensure construction of curb, gutter, and sidewalk at a future date.

### **CEQA REVIEW**

Section 15315 of the CEQA Guidelines exempts minor land divisions in urbanized areas zoned for residential, commercial, or industrial use into four or fewer parcels when the division is in conformance with the General Plan and Zoning. No adverse environmental impacts were discovered during review of the proposed project.

### **RECOMMENDATION**

Staff recommends the Planning Commission **approve** project application #16-041 based on the following Conditions and Findings for Approval.

### **CONDITIONS**

1. The project approval consists of design permit for a new single family home and a minor land division at 2205 Wharf Road. The new single-family home is in the RM-M zone but is reviewed for compliance with the R-1 (single family) zoning district development standards. The maximum Floor Area Ratio for the 5,233 square-foot property is 49% (2,564 square feet). The total FAR of the project is 2,480 square-feet, compliant with the maximum FAR within the zone. The existing triplex on Parcel A, must remaining conforming with the development standards of the zone while subdividing the existing lot of record. As conditioned, the existing triplex will comply with all development standards of the RM-LM zoning district including maximum lot coverage, the front, rear and side yard setbacks, height, open space, and parking requirements. The proposed project is approved as indicated on the final plans reviewed and approved by the Planning Commission on August 4, 2016, except as modified through conditions imposed by the Planning Commission during the hearing.
2. The project consists of the subdivision of a 19,854 square foot lot into two residential lots at 2205 Wharf Road. The single parcel will be subdivided into two lots. The minor land division will create a flag lot with shared driveway access. The tentative map identifies the front lot as Parcel B and the rear lot as Parcel A. Parcel A will be 14,621 square feet and Parcel B 5,233 square feet.
3. Applicant shall have prepared a final parcel map by a registered civil engineer and shall submit the final map for review, approval, and recording by the City's surveyor and the Public Works Department. The parcel map shall include new legal descriptions.
4. Prior to recordation of the final parcel map, the deck on the existing triplex must be decreased in size to comply with the side yard setbacks.
5. Prior to recordation of the final parcel map, all plans and profiles of improvements shall be approved by the Director of Public Works and the construction of said improvements shall be in accordance with the City Specifications and shall be inspected by the Director of Public Works or his authorized agent, subject to fees appropriate for the services. Installation of a public sidewalk along Wharf Road is a required improvement. In lieu of installing this sidewalk the developer shall enter into a deferred improvement agreement with the City.

6. Prior to recordation of the final parcel map, a maintenance agreement and access easement for the shared driveway shall be recorded and referenced on the parcel map. The access easement must be reviewed and approved by the City attorney prior to recordation.
7. Available and necessary utilities, including CATV hookup facilities, with connections to each lot within the subdivision, shall be constructed in accordance with the utility's requirements. All utilities for lot A shall be underground.
8. Prior to construction, a building permit shall be secured for any new construction or modifications to structures authorized by this permit. Final building plans shall be consistent with the plans approved by the Planning Commission. All construction and site improvements shall be completed according to the approved plans.
9. At time of submittal for building permit review, the Conditions of Approval must be printed in full on the cover sheet of the construction plans.
10. At the time of submittal for building permit review, Public Works Standard Detail Storm Water Best Management Practices (STRM-BMP) shall be printed in full and incorporated as a sheet into the construction plans. All construction shall be done in accordance with Public Works Standard Detail Storm Water Best Management Practices (STRM-BMP).
11. Prior to making any changes to approved plans, modifications must be specifically requested and submitted in writing to the Community Development Department. Any significant changes to the size or exterior appearance of the structure shall require Planning Commission approval.
12. Prior to issuance of building permit, a final landscape plan shall be submitted and approved by the Community Development Department. Landscape plans shall reflect the Planning Commission approval and shall identify type, size, and location of species and details of irrigation systems, if proposed. Native and/or drought tolerant species are recommended.
13. Prior to issuance of building permit, all Planning fees associated with permit #16-041 shall be paid in full.
14. Prior to issuance of a building permit, the applicant must provide documentation of plan approval by the following entities: Santa Cruz County Sanitation Department, Soquel Water District, and Central Fire Protection District.
15. Prior to issuance of building permits, a drainage plan, grading, sediment and erosion control plan, shall be submitted to the City and approved by Public Works. The plans shall be in compliance with the requirements specified in Capitola Municipal Code Chapter 13.16 Storm Water Pollution Prevention and Protection.
16. Prior to issuance of building permits, the applicant shall submit a stormwater management plan to the satisfaction of the Director of Public Works which implements all applicable Post Construction Requirements (PCRs) and Public Works Standard Details, including all standards relating to low impact development (LID).



17. Prior to a project final, the applicant shall execute an Operation and Maintenance Agreement, for each lot, for the purpose of operating and maintaining the on-site stormwater improvements.
18. Prior to any land disturbance, a pre-site inspection must be conducted by the grading official to verify compliance with the approved erosion and sediment control plan. Erosion and sediment control shall be maintained throughout the duration of the construction project.
19. Prior to any work in the City road right of way, an encroachment permit shall be acquired by the contractor performing the work. No material or equipment storage may be placed in the road right-of-way.
20. During construction, any construction activity shall be subject to a construction noise curfew, except when otherwise specified in the building permit issued by the City. Construction noise shall be prohibited between the hours of nine p.m. and seven-thirty a.m. on weekdays. Construction noise shall be prohibited on weekends with the exception of Saturday work between nine a.m. and four p.m. or emergency work approved by the building official. §9.12.010B
21. Prior to issuance of a Certificate of Occupancy, compliance with all conditions of approval shall be demonstrated to the satisfaction of the Community Development Director. Upon evidence of non-compliance with conditions of approval or applicable municipal code provisions, the applicant shall remedy the non-compliance to the satisfaction of the Community Development Director or shall file an application for a permit amendment for Planning Commission consideration. Failure to remedy a non-compliance in a timely manner may result in permit revocation.
22. This permit shall expire 24 months from the date of issuance. The applicant shall have an approved building permit and construction underway before this date to prevent permit expiration. Applications for extension may be submitted by the applicant prior to expiration pursuant to Municipal Code section 17.81.160.
23. The planning and infrastructure review and approval are transferable with the title to the underlying property so that an approved project may be conveyed or assigned by the applicant to others without losing the approval. The permit cannot be transferred off the site on which the approval was granted.
24. Upon receipt of certificate of occupancy, garbage and recycling containers shall be shielded and placed out of public view on non-collection days.

## FINDINGS

- A. **The application, subject to the conditions imposed, will secure the purposes of the Zoning Ordinance, General Plan, and Local Coastal Plan.**  
Community Development Department Staff and the Planning Commission have reviewed the project. The minor land division, together with the provisions for its design and improvement, is consistent with the objectives of the Zoning Ordinance, General Plan and Local Coastal Plan. The new single-family home comply with requirements of the zoning district

**B. The application is consistent with the Subdivision Map Act and local Subdivision Ordinance.**

The minor land division was designed in accordance with the Subdivision Map Act and local ordinances enacted pursuant thereto. Per the Subdivision Map Act, the proposed map is consistent with the General Plan and Local Coastal Plan, is physically suited for the proposed type and density of development, will not likely cause substantial environmental damage, or substantially and avoidably injure fish, wildlife or their habitats, will not cause serious public health problems, and will not conflict with public easements for access through, or use of, property within the proposed subdivision.

**C. This project is categorically exempt under Section 15315 of the California Environmental Quality Act and is not subject to Section 753.5 of Title 14 of the California Code of Regulations.**

Section 15315 of the CEQA Guidelines exempts minor land divisions in urbanized areas zoned for residential, commercial, or industrial use into four or fewer parcels when the division is in conformance with the General Plan and Zoning.

**D. The application will maintain the character and integrity of the neighborhood.**

Community Development Staff, the Architectural and Site Review Committee, and the Planning Commission have all reviewed the design of the single-family home. The structures fit within the built environment of the neighborhood. The neighborhood is characterized by a mix of residential densities including single family homes, secondary structures, multi-family homes, apartments, and mobile homes.

**ATTACHMENTS:**

1. 2205 Wharf Road Plans
2. 2205 Wharf Road Tentative Map
3. Arborist report 2205 Wharf Road

Prepared By: Katie Cattan  
Senior Planner

GENERAL INFORMATION	
SITE AREA (LOT B)	ZONE: R-1-B
6.23 SQ. FT.	
BUILDING:	
PROPOSED (LOT B)	
MAIN LIVING	1,64 SQ. FT.
UPPER LIVING	880 SQ. FT.
SUBTOTAL	2,044 SQ. FT.
ADDITIONAL	440 SQ. FT.
TOTAL	2,480 SQ. FT.

CODE ANALYSIS LOT A	
INDICATE EXISTING OCCUPANCY	INDICATE EXISTING OCCUPANCY
HAVE BEEN REPAIRED IN COMPLIANCE	HAVE BEEN REPAIRED IN COMPLIANCE
CODES (2015)	CODES (2015)
BUILDING CONSTRUCTION TYPE: 3A	BUILDING CONSTRUCTION TYPE: 3A
FIRE RATING: NON-SIGNIFIED	FIRE RATING: NON-SIGNIFIED

CODE ANALYSIS LOT B	
INDICATE EXISTING OCCUPANCY	INDICATE EXISTING OCCUPANCY
HAVE BEEN REPAIRED IN COMPLIANCE	HAVE BEEN REPAIRED IN COMPLIANCE
CODES (2015)	CODES (2015)
BUILDING CONSTRUCTION TYPE: 3A	BUILDING CONSTRUCTION TYPE: 3A
FIRE RATING: SIGNIFIED	FIRE RATING: SIGNIFIED

# LOT B

The developer has the authority of any landowner in the jurisdiction to sell, lease, mortgage, or otherwise dispose of the property. The property is not subject to any other restrictions, including but not limited to, zoning, subdivision, or other laws, rules, or regulations. The property is not subject to any other restrictions, including but not limited to, zoning, subdivision, or other laws, rules, or regulations. The property is not subject to any other restrictions, including but not limited to, zoning, subdivision, or other laws, rules, or regulations.

PAGE	TITLE
1	COVER SHEET, PROJECT INFO
2	LET 1 PROPOSED SECOND FLOOR PLAN
3	LET 1 PROPOSED FIRST FLOOR PLAN
4	LET 1 ELEVATIONS
5	LET 1 ROOF PLANS
6	LET 1 MECHANICAL DETAILS
7	LET 1 ELECTRICAL DETAILS
8	LET 1 FINISHES
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41	LET 1 PROJECT MINERAL RESOURCES IMPACT
42	LET 1 PROJECT FISH & WILDLIFE IMPACT
43	LET 1 PROJECT PLANT & ANIMAL IMPACT
44	LET 1 PROJECT SOIL & GEOPHYSICAL IMPACT
45	LET 1 PROJECT CLIMATE IMPACT
46	LET 1 PROJECT AIR QUALITY IMPACT
47	LET 1 PROJECT NOISE & VIBRATION IMPACT
48	LET 1 PROJECT LIGHT & GLARE IMPACT
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50	LET 1 PROJECT ELECTROMAGNETIC INTERFERENCE IMPACT
51	LET 1 PROJECT THERMAL IMPACT
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## GENERAL:

### 1. PROJECT

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**ENERGY REQUIREMENTS:**

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1. ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

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THE DESIGNER MUST BE NOTICED OF ANY DISCREPANCIES IN DIMENSIONS, FIELD CONDITIONS, OR OTHER INFORMATION THAT IS CONTAINED IN AND/OR DERIVED FROM THESE DOCUMENTS. THESE DOCUMENTS ARE THE PROPERTY OF THE DESIGNER AND ARE TO BE USED ONLY FOR THE PROJECT AND AT THE DESIGNER'S CONSENT. THE DESIGNER DISCLAIMS ANY RESPONSIBILITY RESULTING FROM THEIR UNAUTHORIZED USE. COPYRIGHT PROTECTION STARTS FROM THE EARLIEST DATE OF THE DESIGN CONTRACT, PRELIMINARY DESIGN WORK, OR THE CONSTRUCTION DOCUMENTS.

### Δ LEGEND OF SHEETS

PAGE	TITLE
1	COVER SHEET, PROJECT INFO
2	LET 1 PROPOSED SECOND FLOOR PLAN
3	LET 1 PROPOSED FIRST FLOOR PLAN
4	LET 1 ELEVATIONS
5	LET 1 ROOF PLANS
6	LET 1 MECHANICAL DETAILS
7	LET 1 ELECTRICAL DETAILS
8	LET 1 FINISHES
9	LET 1 SCHEDULES
10	LET 1 SPECIFICATIONS
11	LET 1 NOTES & SECTIONS
12	LET 1 SUMMARY
13	LET 1 INDEX
14	LET 1 APPENDICES
15	LET 1 ADDITIONAL INFORMATION
16	LET 1 PROJECT INFORMATION
17	LET 1 PROJECT LOCATION
18	LET 1 PROJECT DESCRIPTION
19	LET 1 PROJECT HISTORY
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21	LET 1 PROJECT SCHEDULE
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23	LET 1 PROJECT RISK ASSESSMENT
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27	LET 1 PROJECT LEGAL & REGULATORY
28	LET 1 PROJECT FINANCIAL ANALYSIS
29	LET 1 PROJECT ECONOMIC IMPACT
30	LET 1 PROJECT SOCIAL IMPACT
31	LET 1 PROJECT ENVIRONMENTAL IMPACT
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34	LET 1 PROJECT ARCHITECTURAL IMPACT
35	LET 1 PROJECT LANDSCAPE IMPACT
36	LET 1 PROJECT INFRASTRUCTURE IMPACT
37	LET 1 PROJECT TRANSPORTATION IMPACT
38	LET 1 PROJECT UTILITIES IMPACT
39	LET 1 PROJECT WATER RESOURCES IMPACT
40	LET 1 PROJECT ENERGY RESOURCES IMPACT
41	LET 1 PROJECT MINERAL RESOURCES IMPACT
42	LET 1 PROJECT FISH & WILDLIFE IMPACT
43	LET 1 PROJECT PLANT & ANIMAL IMPACT
44	LET 1 PROJECT SOIL & GEOPHYSICAL IMPACT
45	LET 1 PROJECT CLIMATE IMPACT
46	LET 1 PROJECT AIR QUALITY IMPACT
47	LET 1 PROJECT NOISE & VIBRATION IMPACT
48	LET 1 PROJECT LIGHT & GLARE IMPACT
49	LET 1 PROJECT RADIOFREQUENCY INTERFERENCE IMPACT
50	LET 1 PROJECT ELECTROMAGNETIC INTERFERENCE IMPACT
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FIRE DEPARTMENT REQUIREMENTS  
 OCCUPANCY CLASSIFICATION B-3.01

FIRE FLOW REQUIREMENTS FOR SUBJECT PROPERTY ARE A MINIMUM 1000 GALLONS PER MINUTE FROM ON HYDRANT LOCATED WITHIN 250 FEET.

THESE PLANS ARE IN COMPLIANCE WITH CALIFORNIA BUILDING AND FIRE CODES, AND DISTRICT MANUALLY. DESIGNER/INSTALLER SHALL SUBMIT THREE SETS OF PLANS AND CALCULATIONS TO THE DISTRICT ENGINEER FOR REVIEW AND APPROVAL. THE UNDERGROUND AND OVERHEAD RESIDENTIAL AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED ACCORDING TO CALIFORNIA BUILDING AND FIRE AGENCY. BUILDING NUMBERS SHALL BE PROVIDED. NUMBERS SHALL BE A MINIMUM INCHES IN HEIGHT ON A CONTRASTING BACKGROUND AND VISIBLE FROM THE STREET. THE DISTRICT ENGINEER SHALL BE NOTIFIED OF ANY CHANGES TO THE PLANS. THE DISTRICT ENGINEER SHALL NOT EXCEED 1/2 INCH.

### EROSION CONTROL NOTES

On the basis of the above, the following conditions should be observed in the use of the above-mentioned equipment:

1. The equipment should be used only for the purpose intended and in accordance with the instructions for its use.
2. The equipment should be used only by persons who have received special training and who are familiar with the instructions for its use.
3. The equipment should be used only in the presence of a person who is familiar with the instructions for its use.
4. The equipment should be used only in the presence of a person who is familiar with the instructions for its use.
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8. The equipment should be used only in the presence of a person who is familiar with the instructions for its use.
9. The equipment should be used only in the presence of a person who is familiar with the instructions for its use.
10. The equipment should be used only in the presence of a person who is familiar with the instructions for its use.

[illegible]

COVER SHEET LEGEND OF SHEETS		DRAWING: G01 CHAIRMAN: JOB NO.: WHARF B DATE: 04/08/16 SHEET: 1
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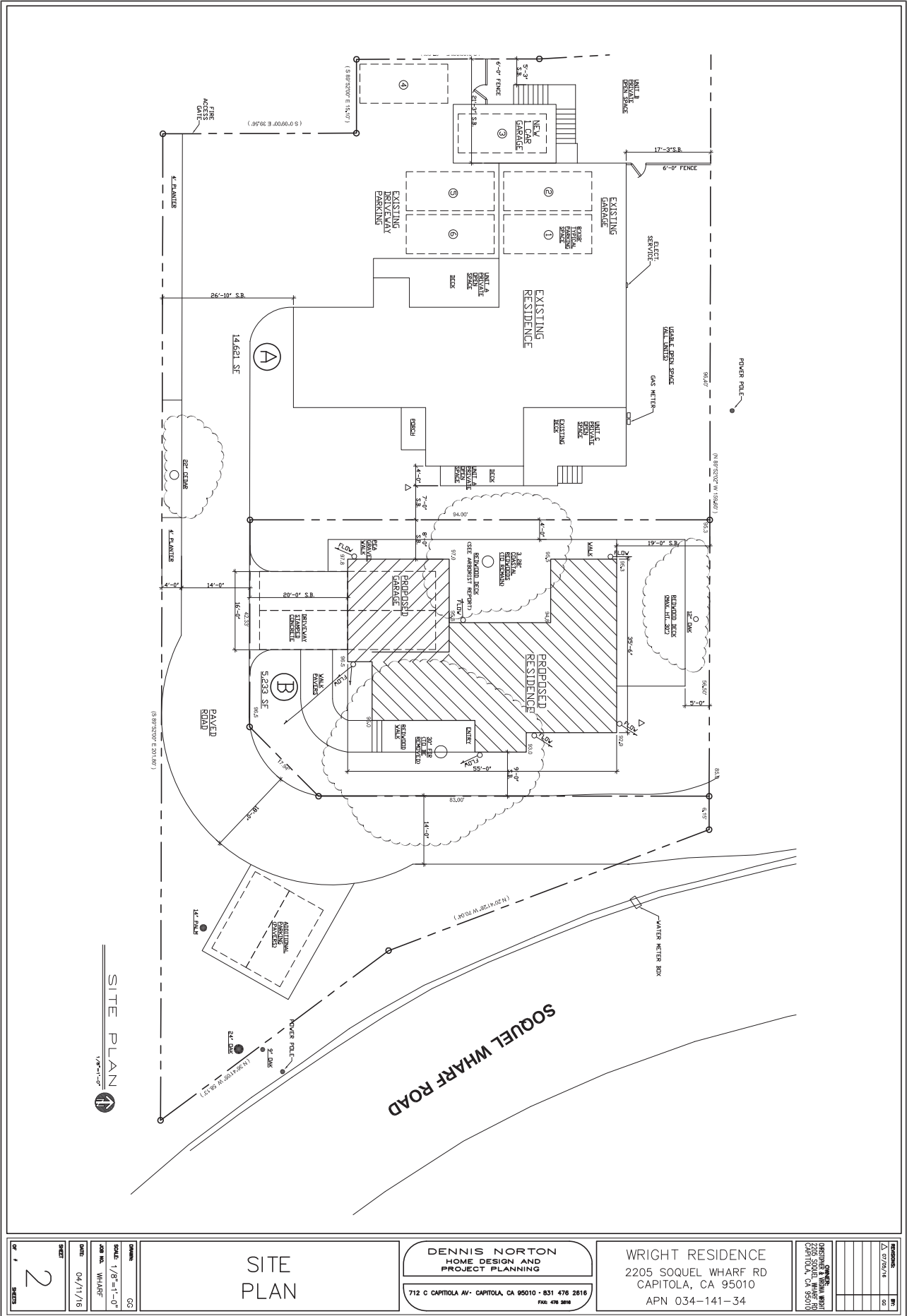
**DENNIS NORTON**  
HOME DESIGN AND  
PROJECT PLANNING

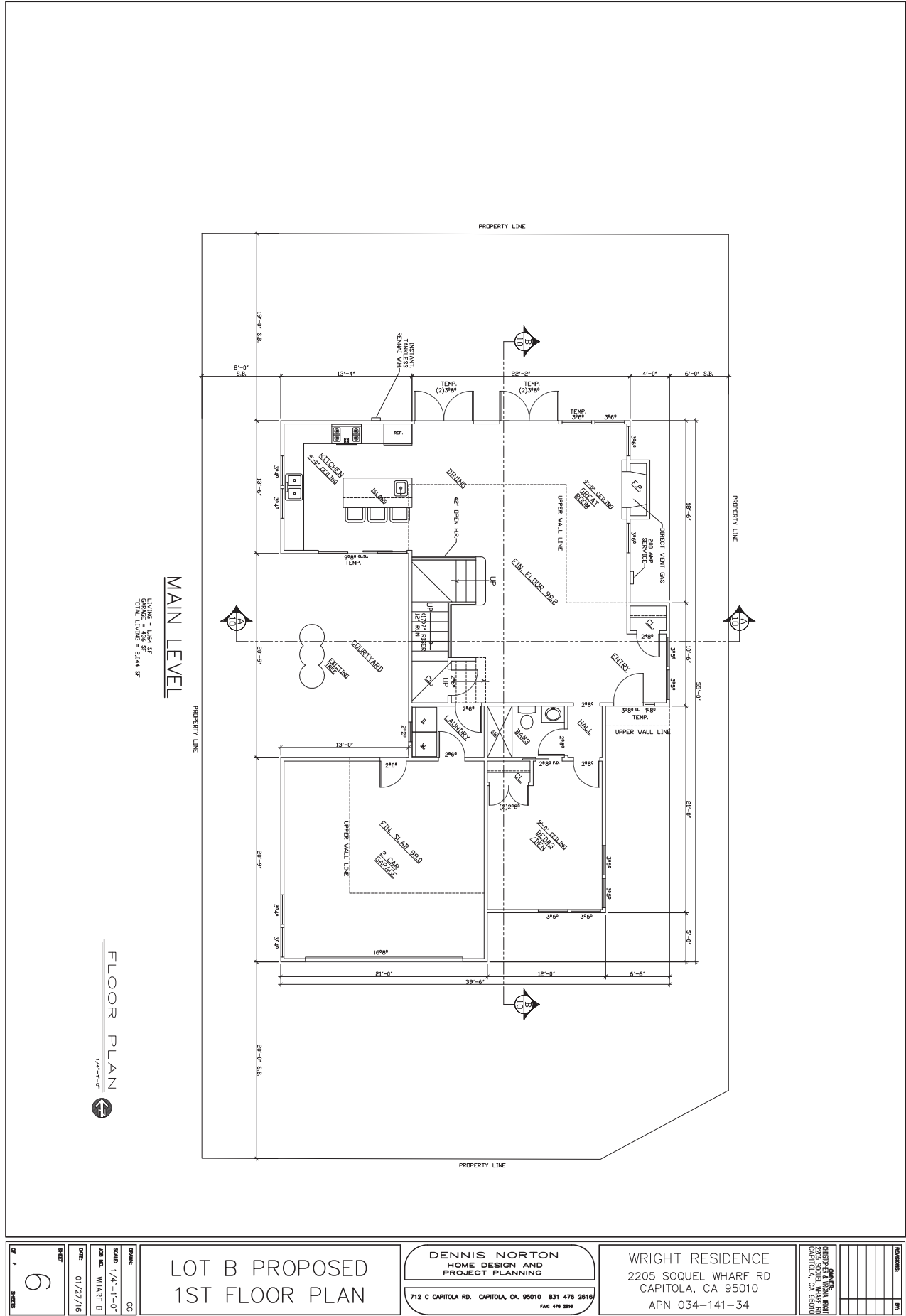
712 C CAPITOLA AV. • CAPITOLA, CA 95010 • 831 476 2616  
FAX: 476 2616

WRIGHT RESIDENCE  
2205 SOQUEL WHARF RD LOT B  
CAPITOLA, CA 95010  
APN 034-141-34

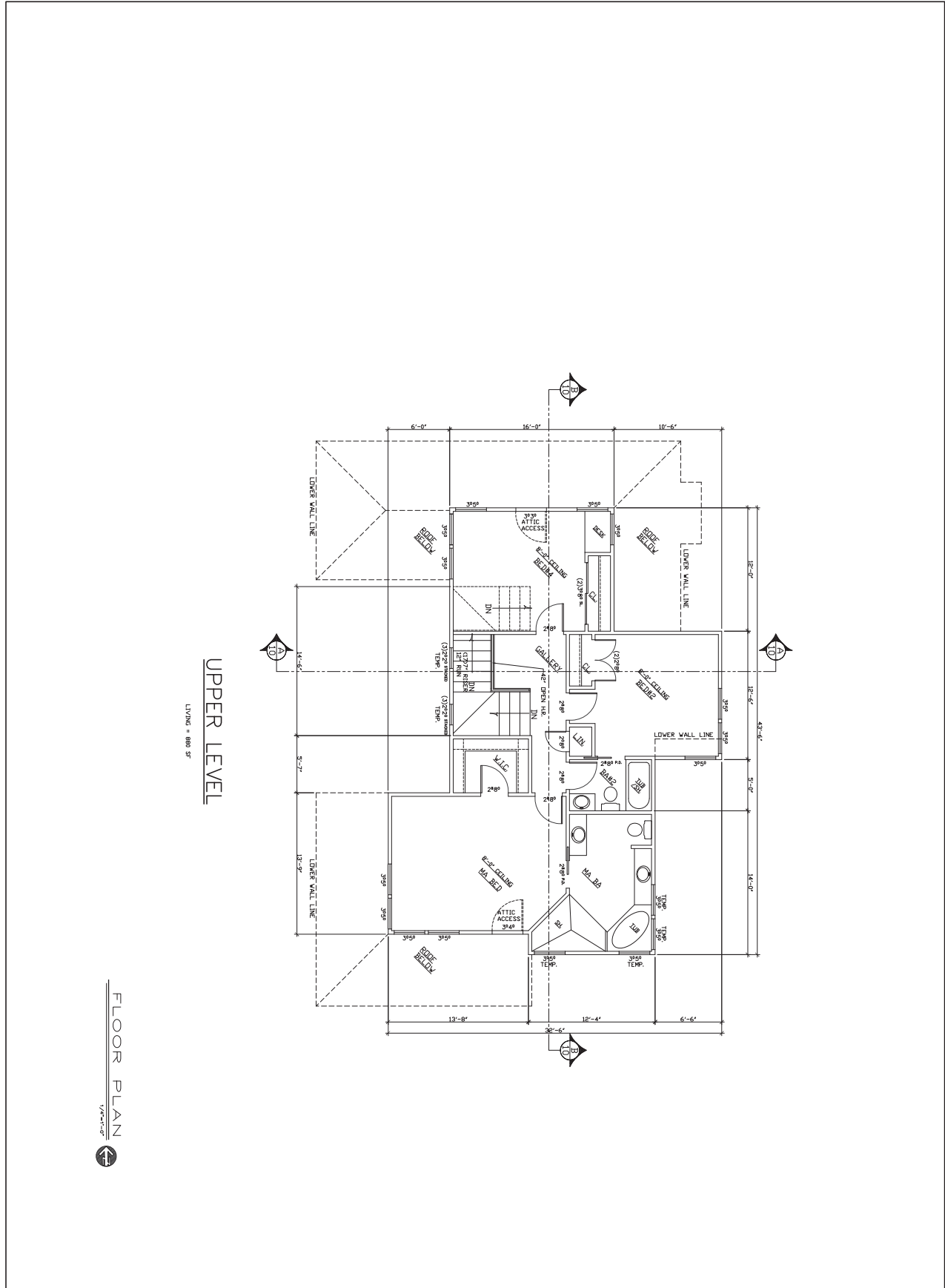
REVISIONS:	BY:
△ 07/05/16	GC

**OWNER:**  
CHRISTOPHER & WENDY WRIGHT  
2205 SOCIETY SQUARE ROAD  
CAPITOLA, CA 95010

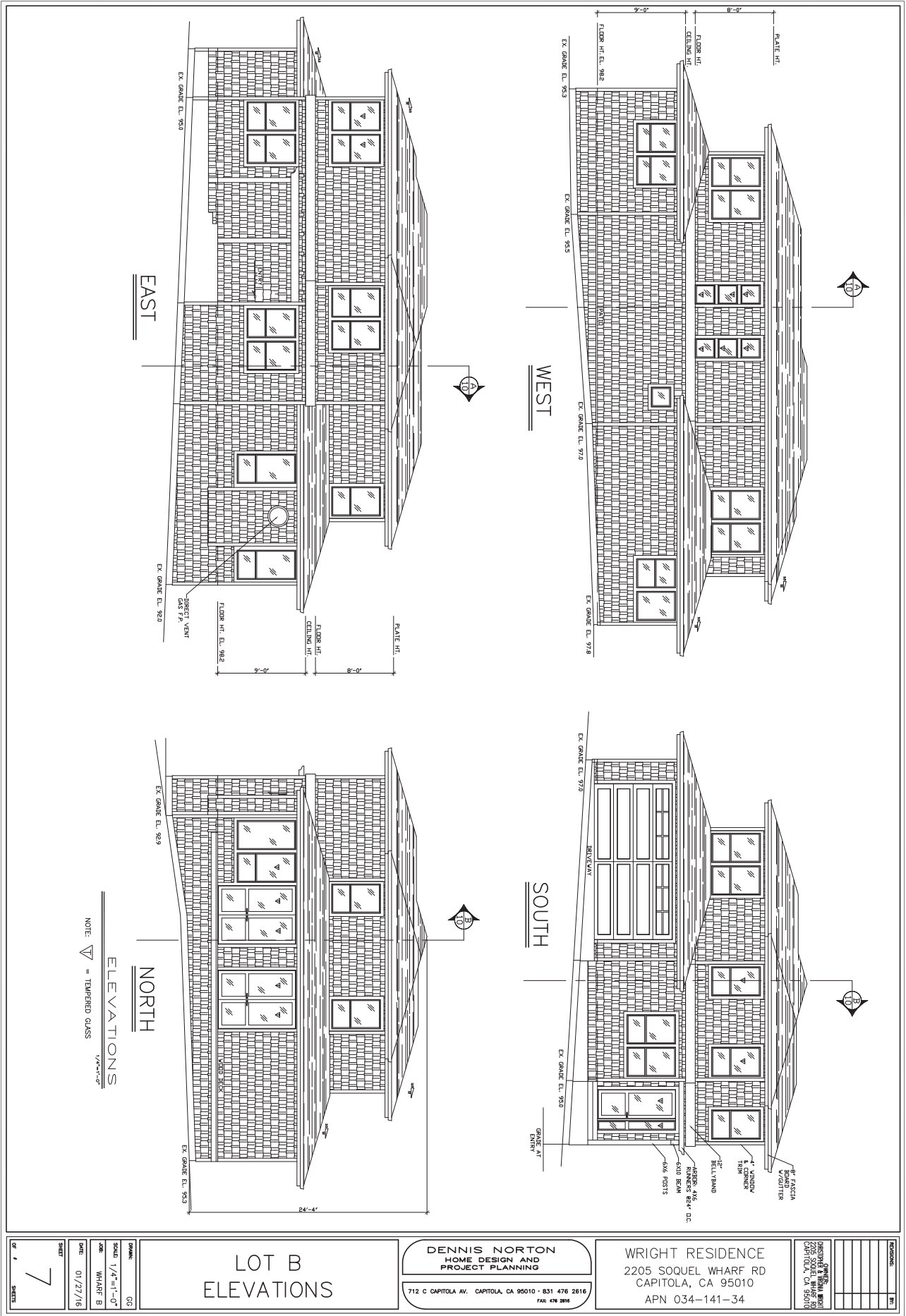








<p>5</p>	<p>DATE: 01/27/16</p>	<p><b>LOT B PROPOSED 2ND FLOOR PLAN</b></p>	<p><b>DENNIS NORTON HOME DESIGN AND PROJECT PLANNING</b></p> <p>712 C CAPITOLA RD. CAPITOLA, CA. 95010 831 476 2616 FAX: 476 2896</p>	<p><b>WRIGHT RESIDENCE</b> 2205 SOQUEL WHARF RD CAPITOLA, CA 95010 APN 034-141-34</p>	<p>OWNER: WRIGHT RESIDENCE 2205 SOQUEL WHARF RD CAPITOLA, CA 95010</p>
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**Packet Pg. 167**

**BAIRD  
STRUCTURAL  
DESIGN, INC.**

7985 SOQUEL DR. #140  
ARTES  
CALIFORNIA  
91004

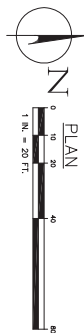
821.661.0564

$$1/8'' = 1' - 0''$$

*WRIGHT RESIDENCE*

2205 SOQUEL WHARF ROAD  
CAPITOLA, CA  
APN 034-141-34

C1



### IMPERVIOUS SURFACES

AREA	EXCAVATION
RESIDENCE	(20) CU YARDS
NET EXPORT	20 CU YARDS

## IMPERVIOUS SURFACES

TOTAL SITE AREA =	5494 SF	0.13 AC
EXISTING IMPERVIOUS SURFACES =	0 SF	0 AC
PROPOSED IMPERVIOUS SURFACES =	2126 SF	0.049 AC
INCREASE IN IMPERVIOUS SURFACES =	2126 SF	0.049 AC
EXISTING SEMI-PERVIOUS SURFACES =	0 SF	0.0 AC
PROPOSED SEMI-PERVIOUS SURFACES =	732 SF	0.017 AC
(WALK/PATIO)		

## SANITARY SEWER FLOW

DIAMETER "D"	ROUGHNESS "R"	SLOPE "S"	FLOW RATE "Q"
4"	150	2%	196 gpm
6"	150	2%	568 gpm
8"	150	1%	833 gpm

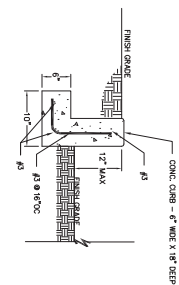
EARTHWORK VOLUMES SHOWN ARE TO SATISFY PERMIT REQUIREMENTS ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. ACTUAL EARTHWORK VOLUMES MAY DIFFER FROM THE ESTIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE EARTHWORK VOLUMES PRIOR TO CONSTRUCTION.

**NOTES:**  
1. NO SITE DISTURBANCE OF ANY KIND IS TO TAKE PLACE PRIOR TO HOLDING A PRE-CONSTRUCTION MEETING ONSITE WITH ROBERT LOVELAND ENVIRONMENTAL PLANNER  
(831)454-3163

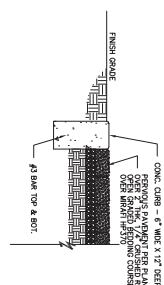
## LEGEND

## ABBREVIATIONS

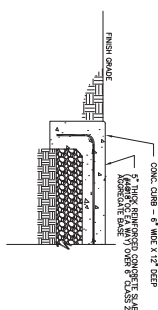
- |                                     |                             |  |
|-------------------------------------|-----------------------------|--|
|                                     | <b>VARIATIONS</b>           |  |
| EDGE OF DRIVEWAY                    | A6 ASPHALT CONCRETE         |  |
| LIFT OF GRADING                     | B7 BOTTOM OF MALL           |  |
| PROPOSED PERIMETER CONCRETE         | C8 CONC. ON MALL            |  |
| PROPOSED SEMI-PERMEABLE PAVERS      | D9 SANITARY SEWER CLEAN OUT |  |
| DIRECTION OF SLOPE                  | E10 TOP OF MALL             |  |
| PROPOSED SANITARY SEPTIC LINE       | F11                         |  |
| PROPOSED 1" DIA DOMESTIC WATER LINE |                             |  |
| PROPOSED FIRE WATER LINE            |                             |  |



3 CURB DETAIL  
SCALE: 1"=1'-0"



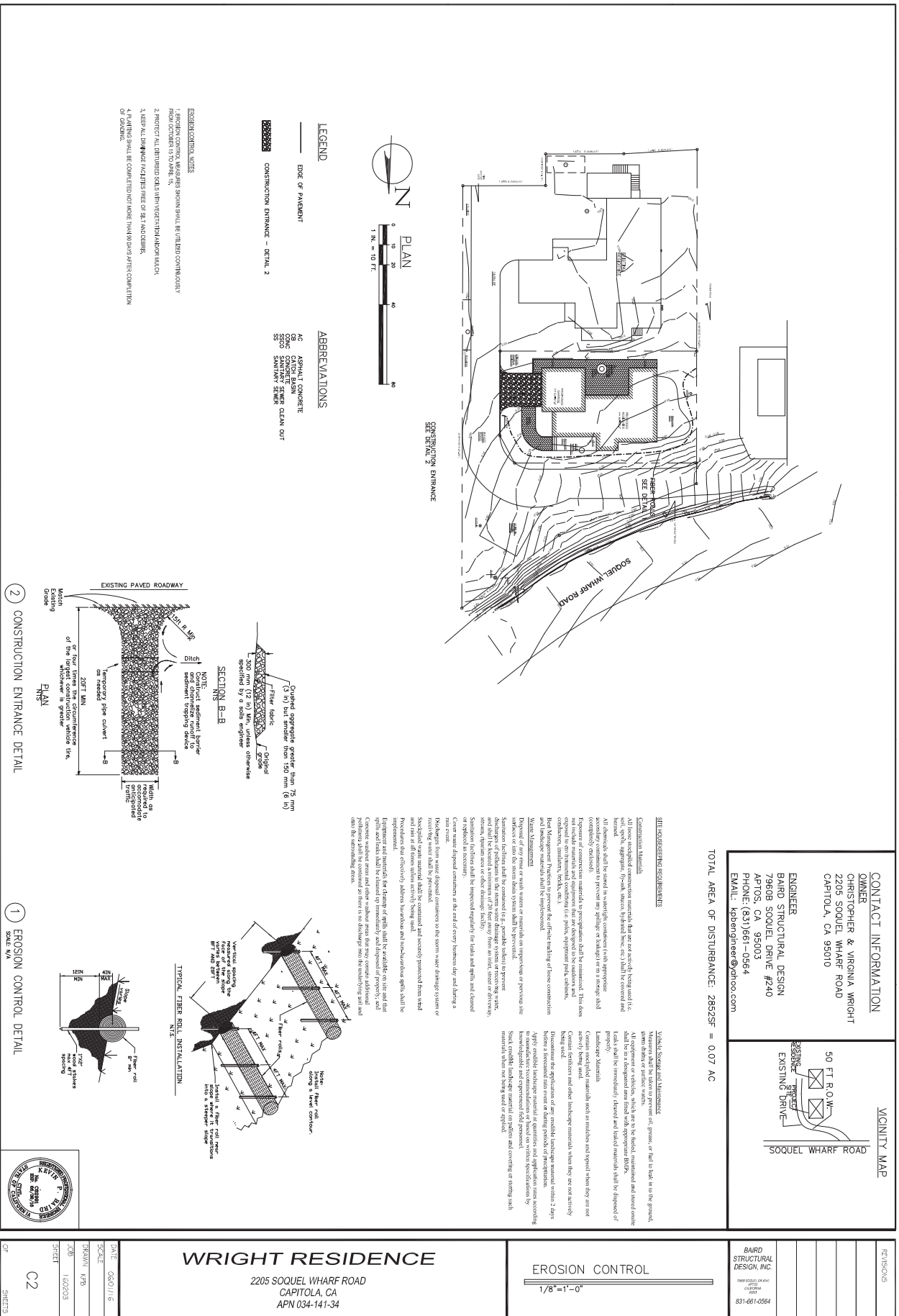
① SEMI-PERMEABLE PAVEMENT (PATO & WALK)  
SCALE 1"=1'-0"



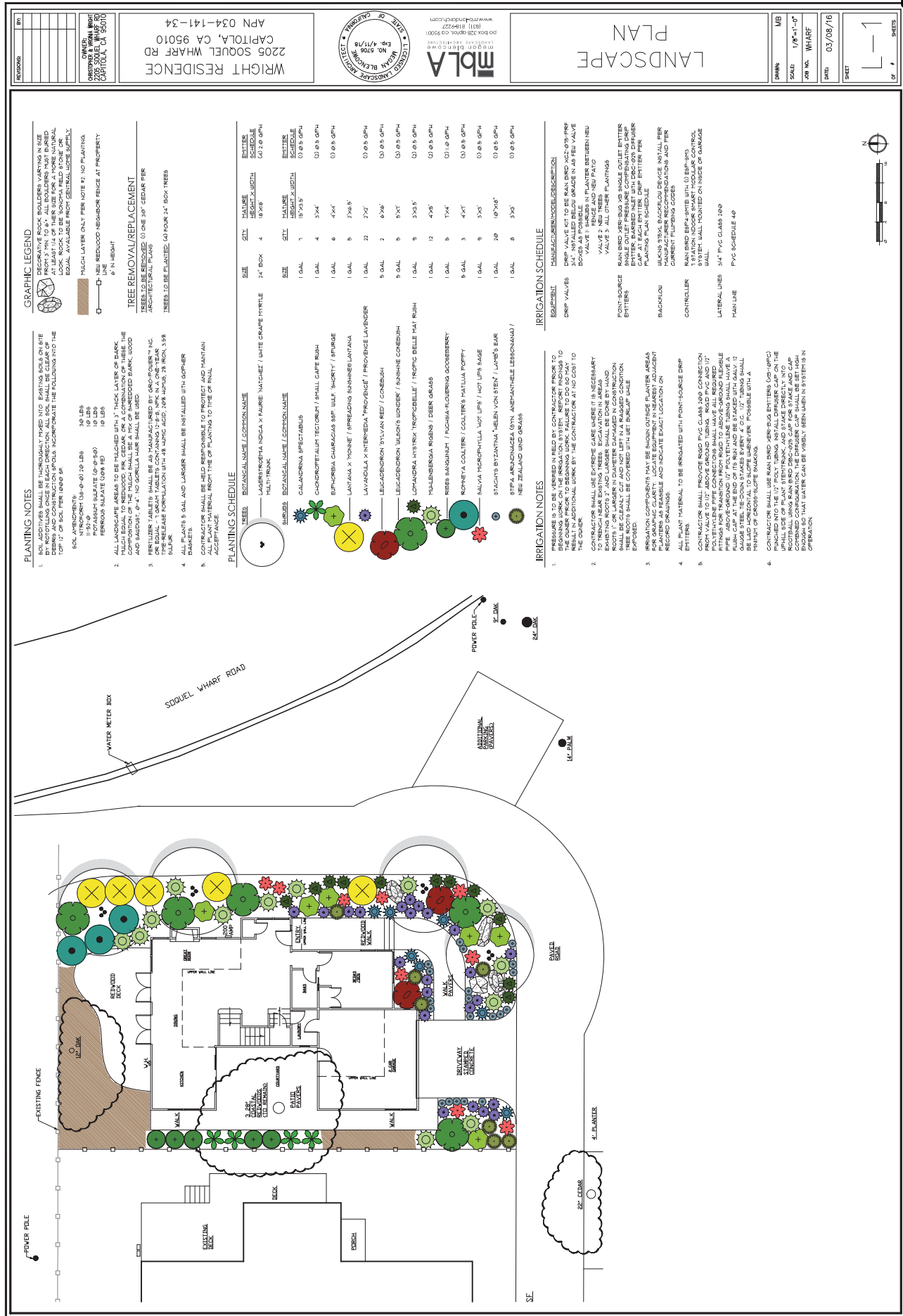
2 CONCRETE DRIVEWAY  
SCALE: 1"=1'-0"



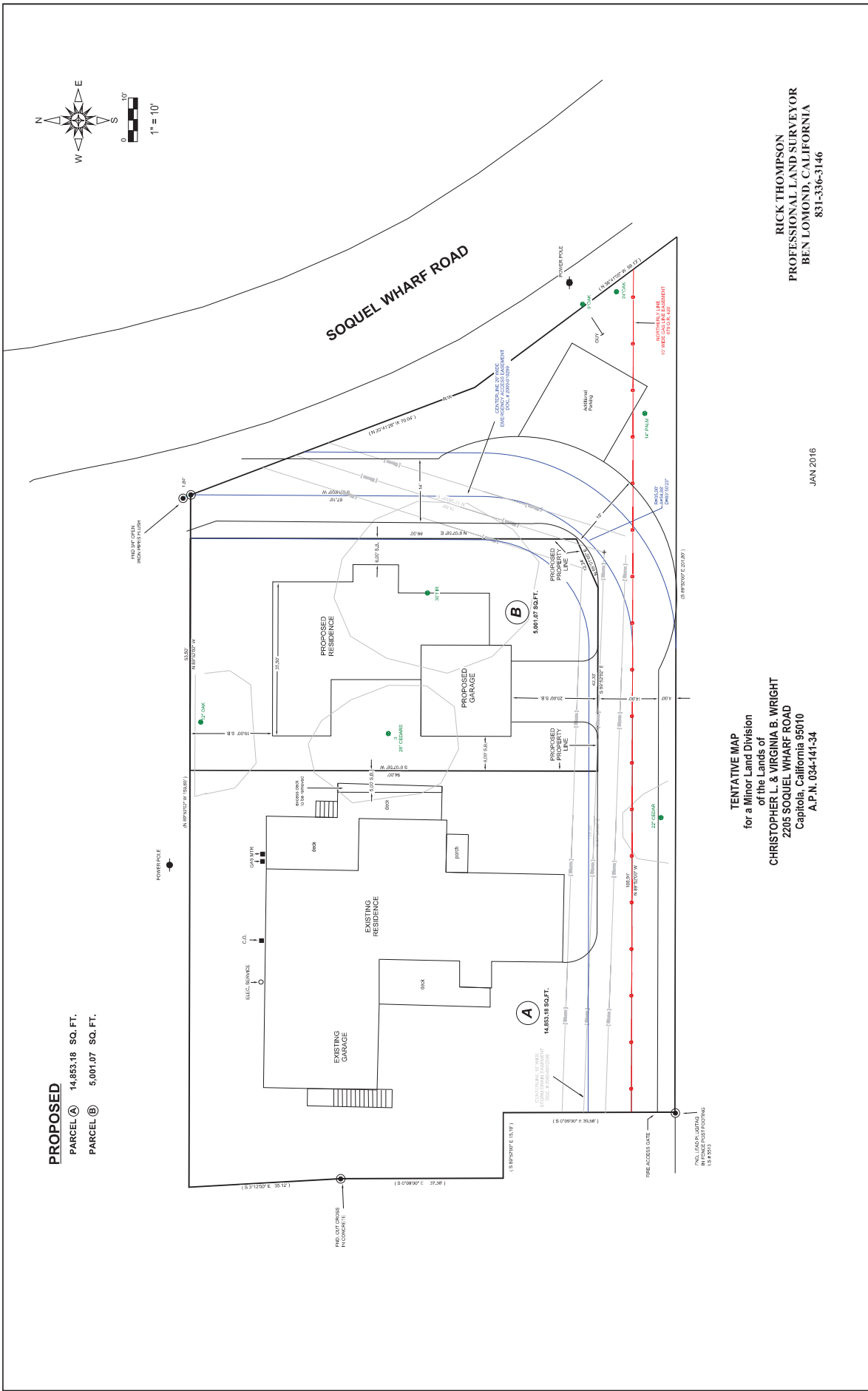














Parcel Improvements at:  
2205 Soquel Wharf Road  
Capitola, CA 95010  
APN: 034-141-34

Tree Resource Evaluation/  
Construction Impact Assessment



Prepared For:  
Christopher Wright  
150 Greystone Court  
Santa Cruz, CA 95062  
March 1<sup>st</sup>, 2016

 **Kurt Fouts**  
Arborist Consultant  
826 Monterey Avenue  
Capitola, CA 95010  
831-359-3607  
scharborgrounds@yahoo.com

Attachment: Arborist report 2205 Wharf Road (1419 : 2205 Wharf Road)

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### Attachments:

- Tree Assessment Chart
- Subject Tree Images
- Tree Inventory and Tree Protection Fencing Map
- Tree Protection Fencing Sign Example
- Assumptions and Limiting Conditions

Parcel Improvements/Tree Resource Evaluation  
 2205 Wharf Road/APN 783-72-042  
 March 11, 2016  
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## ASSIGNMENT/SCOPE OF SERVICES

An application has been submitted for a minor land division and new two-story, single family residence, at 2205 Soquel Wharf Road (APN 034-141-34). There is an existing residence on the undivided parcel. The project is to be reviewed by the Capitola Planning Department. As an element of the application, this arborist report has been submitted, including a Tree Resource Evaluation. Potential construction impacts were assessed, as required by the City of Capitola Planning Department, Municipal Code, section 12.12.130 *Tree protection, management and maintenance*.

As a condition of approval of the building permit, I will review working drawings when they become available. After review, a supplemental arborist report will be submitted and construction impact mitigation treatments will be specified.

In order to complete this assignment, the following services were performed:

- **Plan Review:** Analyze provided plans including: Concept Site Plan by Dennis Norton Design and Tentative Map for a Minor Land Division by Rick Thompson, Land Surveyor
- **Tree Preservation Evaluation:** Inventory, evaluate and recommend tree retention or removal based on current tree condition and anticipated construction impacts.
- **Tree Preservation Specifications:** Create tree preservation specifications including a protection fencing plan.
- **Construction Impact Mitigation Specifications:** Provide specifications for remedial treatments, to reduce construction impacts to retained trees and ensure their long term survival.
- **Pruning Specifications:** Generate pruning specifications as necessary to facilitate construction activities, building clearance and improve tree structure.
- **Tree Canopy Evaluation and Tree Replacement Recommendations:** Access tree canopy coverage. Provide tree replacement specifications, if required.

## BACKGROUND

On February 24<sup>th</sup>, I met with the parcel owner Christopher Wright on site. We reviewed the current plans for the proposed development and how they related to the existing trees.

In March, 2016, a site analysis was conducted. All trees within the property boundary were assessed for their health and structural condition.

Numbered tree tags were attached to each tree. The corresponding numbers and surveyed tree locations are documented on the attached *Tree Location Map*.

Construction impacts were evaluated using the Site Plan by Dennis Norton Design. The following section summarizes my findings.



Parcel Improvements/Tree Resource Evaluation  
 2205 Wharf Road/APN 783-72-042  
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## SUMMARY OF FINDINGS

On March 1<sup>st</sup>, 2016, I made a site visit to the proposed development at 2205 Soquel Wharf Road. The site topography slopes gently from west to east, then, at the driveway it slopes more abruptly, with a steep slope beyond the driveway edge and down to Wharf Road. Soils are clay loam and appear well drained.

I assessed eight trees which were located mostly at the perimeters of the property, with two significant trees a giant sequoia located on the west edge, and a deodar cedar located towards the center of the property. One tree, an incense cedar is located on the adjacent property.

The trees were generally in fair to good condition, ranging in age from young to mature. The native tree vegetation occurring naturally on the site appears to be limited to the coast live oaks, with the giant sequoia and incense cedar introduced.

The native trees (4), two coast live oaks, one incense cedar and one giant sequoia, were all in fair to good health, with fair to good structure. The health of the remaining trees (4), including a deodar cedar, loquat, palm and apple was good. The structure of these four trees was fair to good.

I recommend retention of six trees and removal of two trees. Two trees are recommended for removal because of their very close proximity to a design feature. In this case, the deodar cedar is located close to the home foot print and the apple is very close to the sound wall foundation.

## TREE EVALUATION METHODS

The evaluation included seven trees located within property boundaries of the proposed project. One tree, an incense cedar, was located outside the property of the proposed project but within range of construction impacts.

Evaluations and individual tree data is provided in the *Tree Assessment Chart, Appendix A* of this report. Health and structural conditions are rated. Potential construction impact ratings for each tree are described and graded. Additionally, each trees suitability for preservation is rated. Also provided are tree images depicting current tree conditions. **To correlate the data in the Tree Assessment Chart to the tree's location on the site, refer to the Tree Location and Tree Protection Fencing Plan. Tree locations are overlaid onto the Tentative Map site plan provided by Rick Thompson - Land Surveyor, dated January 2016.**

Following is an explanation of the data used in the tree evaluations and incorporated into the *Tree Assessment Chart, Appendix A*:

Parcel Improvements/Tree Resource Evaluation

Attachment: Arborist report 2205 Wharf Road (1419 : 2205 Wharf Road)

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Tree #:

The trees have been assigned a number and are physically tagged as indicated on the site plan.

Common and Botanical Name (Species):

The botanical name and common name are designated for each tree.

Trunk Diameter and Number of Trunks:

Trunk diameter as measured at 4.5 feet above grade. The number of trunks refers to a single Or multiple trunk trees. Trunks must occur at or below 4.5 feet above grade for a tree to be Considered as having multiple trunks for purposes of measurement.

Height and Crown Diameters:

Approximate visual estimates. Accuracy is within plus or minus 10% it the indicated estimate.

Health and Structural Ratings:

Trees are rated based on relative conditions such as vigor, the extent of decay, structure, and insect or disease problems. Good and fair ratings indicate limited structural problems, acceptable vigor, and an absence of significant pest or disease problems. Poor ratings indicate serious health or structural problems. Trees rated as poor are often a high risk of structural failure.

The comments and observations describe the basis for the health and structural rating. The specific pests, disease and structural defects observed are described and identified, if possible.

This evaluation is of above ground structure and conditions only, additional defects may exist at the root collar. Often, larger mature and over mature trees require a root collar examination to evaluate the primary structural roots and root collar for decay and disease. In addition, an aerial inspection of the limb structure may be required.

Health Ratings:

Good: A healthy, vigorous tree, reasonably free of signs and symptoms of disease

Fair: Moderate vigor, moderate twig and small branch dieback, crown may be thinning and leaf color may be poor.

Poor: Tree in severe decline, dieback of scaffold branches and/or trunk, most of foliage from epicormics.

Parcel Improvements/Tree Resource Evaluation



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 March 11, 2016  
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#### Structure Ratings:

Good: No significant structural defects. Growth habit and form typical of the species.

Fair: Moderate structural defects that might be mitigated with regular care.

Poor: Extensive structural defects that cannot be abated.

#### Comments/Observations:

This is the summary discussion of the health and structural ratings. Identification of any significant pest or disease or structural defect is incorporated in this section.

#### Suitability for Preservation Ratings

##### **Rating factors:**

Tree Health: Healthy vigorous trees are more tolerant of construction impacts such as root loss, grading and soil compaction, than are less vigorous specimens.

Structural integrity: Preserved trees should be structurally sound and absent of defects or have defects that can be effectively reduced, especially near structures or high use areas.

Tree Age: Over mature trees have a reduced ability to tolerate construction impacts, generate new tissue and adjust to an altered environment. Young to maturing specimens are better able to respond to change.

Species response: There is a wide variation in the tolerance of individual tree species to construction impacts.

##### **Rating Scale:**

Good: Trees in good health and structural condition with potential for longevity on the site

Fair: Trees in fair health and/or with structural defects that may be reduced with treatment procedures.

Poor: Trees in poor health and/or with poor structure that cannot be effectively abated with treatment. Trees can be expected to decline or fail regardless of construction impacts or management.

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#### Construction Impacts Rating and Description:

Impacts are rated as high, moderate, low or none. Criteria for ratings are listed below. Descriptions include type of construction impact on roots, such as compaction or trenching. Impacts to canopy such as clearance pruning are also noted.

#### **Rating Scale:**

High: Development elements proposed that are located within the Tree Protection Zone that would severely impact the health and/or stability of the tree. These elements cannot be mitigated without design changes.

Moderate: Development elements proposed that are located within the Tree Protection Zone that will impact the health and/or stability of the tree and can be mitigated with tree protection treatments.

Low: Development elements proposed that are located within or near the Tree Protection Zone that will impact the health of the tree and can be mitigated with tree protection treatments.

None: Development elements will have no impact on the health and stability of the Tree.

#### Tree Protection Zone (TPZ) and Critical Root Zone (CRZ):

A tree protection zone designated as a radial distance from the trunk establishes the area where tree protection procedures are required. The critical root zone is the radial area around the trunk where all root impacts should be avoided or mitigated with specialized procedures. Impacts in this zone are likely to affect tree health permanently and could potentially destabilize the tree.

This is the protected area that allows the majority of the structural root zone, to be undisturbed while still facilitating necessary grading, the construction of buildings and associated construction related activities. Tree Protection Zones are delineated in the *Tree Location and Tree Protection Fencing Plan*, attached to this report.

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2205 Wharf Road/APN 783-72-042  
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## EVALUATION OF CONSTRUCTION IMPACTS

The impacts to the tree resources resulting from the construction of the proposed residence have been assessed.

Two trees will require removal. The deodar cedar and the apple. The deodar cedar is recommended for removal because it is located in the entry way foot print, and is 5 feet from the proposed home foundation. Additionally, this tree cannot be effectively pruned to provide adequate clearance from the proposed two-story structure as a result of its close proximity and wide spreading canopy.

Since the apple tree is located within 3 feet of the proposed sound wall foundation, it should be removed.

Two trees on the property will be at least moderately impacted.

The giant sequoia tree (tree #2) is growing 7 feet from the edge of the proposed garage foundation, and 7, and 11 feet from two areas of the homes foundation. There are also patio pavers proposed between the tree trunk and the west side of the home. The impacts resulting from construction activities are moderate to high. The type of foundation construction and installation methods will determine the degree of impact.

Since the tree protection zone is estimated at 18 feet, it will be necessary to encroach into the Critical Root Zone (CRZ), in order to construct this home.

The excavation required to construct the driveway foundation may damage or remove structural roots responsible for keeping the tree upright, in addition, some absorbing roots responsible for supplying the tree with moisture and nutrients will be removed and the area for root re-growth will be reduced.

Additionally, root loss could occur in the construction of the homes foundation. The amount of root loss will be dependent on the type of foundation installed and the installation methods.

The second tree that will be at least moderately impacted from construction is the coast live oak (tree #2). This tree is located within 12 feet of the north end of the home. Impacts to this tree include soil compaction and loss of absorbing roots.

The remainder of the trees on the property (and one on the adjacent property, tree #1), will be minimally impacted or for some trees, there will be no construction impact.



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 2205 Wharf Road/APN 783-72-042  
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## CONSTRUCTION METHODS TO REDUCE TREE ROOT IMPACTS

In order to minimize soil compaction and root loss, I recommend post and beam foundation construction for the proposed residence. The foundation for the garage is recommended to be a reinforced concrete, 'floating' slab on grade. Additionally, a raised wood deck is recommended in place of patio pavers, under the canopy of the Giant Sequoia tree.

## CONSTRUCTION IMPACT MITIGATION TREATMENTS

In order to assist in root exploration and reduce the impacts of this project on tree #2 giant sequoia and tree #4 coast live oak, the following procedures shall be completed:

- All ground cover (ivy and periwinkle) under the trees dripline shall be removed, by hand. Any ivy growing up the trunks of the trees should also be removed.
- Root exploration procedures in the proposed driveway foot print shall be implemented. The exploration areas are documented on the attached site plan.

### **Root Exploration Procedures:**

- A) Excavation to a depth equal to the proposed subgrade shall begin near the center of the garage foot print.
  - B) Equipment will be placed outside the Tree Protection Zone and will dig carefully toward the trunk of the tree in small increments.
  - C) Any roots encountered will be inspected and properly pruned as described below in section 5.4 'Root Pruning'.
  - D) This procedure will continue until the excavation has reached to one foot beyond the proposed edge of the foundation.
  - E) Pruned roots shall be treated as described below in section 5.4 'Root Pruning.'
- A supplemental arborist report, outlining specific impact mitigation treatments, will be submitted, after generation of working drawings.

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 2205 Wharf Road/APN 783-72-042  
 March 11, 2016  
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## TREE PRESERVATION AND PROTECTION PROCEDURES (General)

Construction of the new homes foundation and subgrade preparation for the new garage slab foundation will be the primary construction impacts for this project. The following guidelines are recommended to maximize tree performance and longevity. Not all of these recommendations will apply to this project.

### 1.0 Tree Protection Zone

- 1.1 All construction activity (grading, filling, paving, landscaping) will respect a Tree Protection Zone (TPZ) around trees to be protected. The TPZ will be a distance of one-foot radial distance from the trunk for each one-inch of trunk diameter. Exceptions to this standard may occur depending upon the age and condition of individual trees.

### 2.0 Construction Observations and Supervision

- 2.1. All arboricultural and related soil work should be performed under the observation of an International Society of Arboriculture (ISA) Certified Arborist or City designated representative.
- 2.2. All specified arboricultural work should be completed prior to site grading (root pruning, canopy pruning, fencing, etc.)
- 2.3. The contractor is required to meet with the Project Arborist or City designated representative to review all the tree protection requirements

### 3.0 Tree Protection Fencing

- 3.1 Fencing at a minimum of four feet in height and clearly marked to prevent inadvertent encroachment by heavy machinery should be installed either at the edge of the Tree Protection Zone (TPZ), the crown drip line (whichever is further from the trunk), or at the edge of the construction zone, if the construction zone protrudes into the TPZ. The Project Arborist, or City designated representative, should approve the location of the fencing. All fencing should be in place prior to any site grading.
- 3.2. Contractor should maintain the protection fencing and prohibit all access to fenced areas by construction personnel or equipment until all site work is completed.
- 3.3. All structures including construction trailers, equipment storage areas, and any other construction traffic are prohibited within fenced areas. Burning or debris piles are prohibited within fenced areas. No materials, equipment, spoil, waste, or washout water should be deposited or stored within fenced areas. Fences may not be moved without



written permission of the Supervising Arborist or City designated representative.  
 Parcel Improvements/Tree Resource Evaluation  
 2205 Wharf Road/APN 783-72-042  
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- 3.4 If temporary access within a fenced area is determined to be necessary then a six-inch layer of bark mulch should be placed in all areas requiring access. This requirement for mulching should apply to all areas within the fenced area and subject to access. If equipment access is required, then the mulch should be overlaid with metal plates of sufficient thickness to adequately distribute bearing load.
- 3.5 Trunk protection planks shall be installed consisting of 2x4 wood planks placed over a closed-cell foam pad with straps binding the planks in place. This requirement shall apply to all trees where grading or construction activities occur within the TPZ. Trunk and scaffold barriers, protect trees from mechanical damage.

#### 4.0 Demolition/Site Clearing

- 4.1 A qualified arborist should review any tree removal work within 50 feet of a TPZ. Trees requiring removal should be felled away from protected trees. Roots of trees to be removed may require pruning with approved root cutting equipment prior to felling if intermingled with roots of retained trees.
- 4.2 Excavation equipment should operate from outside the TPZ. Brush and wood chips generated from tree and brush removal should be placed in the TPZ to a maximum depth of six inches.
- 4.3 All required pruning should conform to the pruning section of these guidelines.
- 4.4 All brush removal should be performed with hand equipment when within a TPZ.

#### 5.0 Site Grading, Trenching, and Root Pruning

- 5.1 Keep site grading within designated construction zones. Grading cuts or trenching within the TPZ of a retained tree trunk requires special trenching procedures. Trenches should be dug manually with an air spade or with the use of a root cutting machine, rock cutter, or other approved root-pruning equipment. This root-pruning trench should be placed one foot inside the edge of the grading cut or trench edge. The depth of the trench should equal the depth of the grading cut to a maximum depth of 40 inches.
- 5.2 A trench may be mechanically dug toward a tree until the edge of the TPZ is reached. From the edge of the TPZ, the special trenching procedures should apply.
- 5.3 Underground utilities, drain, and irrigation lines should be routed outside the TPZs. When lines must cross the TPZ, the lines should be bored or tunneled through the area at a depth approved by the supervising arborist. In these instances, a single shared utility conduit should be used to reduce impacts to trees.

5.4. Any roots one inch in diameter or larger requiring removal should be cut cleanly in sound tissue. The roots and surrounding soil should be moistened, and covered with a thick mulch (4") to prevent desiccation. No pruning seals or paints should be used on wounds. Cut and exposed roots should be protected from drying. A water absorbent material (i.e. burlap) should be secured at the top of the trench and should be draped over the exposed roots. This material should be kept moistened, and soil replaced as soon as practicable.

5.5 Use of retaining walls is recommended to protect retained trees rather than mass grading.

5.6. Fill placement areas covering 30% or more of the TPZ of trees larger than 24 inches dbh and over one foot in depth should be mitigated with a retaining wall or well. Installation of aeration systems may also be required depending upon the extent, depth, and type of the fill.

5.7 The established method for protecting trees subjected to deep grading fills is to construct a well around the trunk and install an aeration system over the root system at the original grade level. The aeration system utilizes perforated plastic pipe laid out in a radially spoked pattern from the tree well with vertical pipes providing connection to surface oxygen and water. This aeration system should facilitate drainage away from the trunk. The fill is then placed over the aeration system.

5.6 Porous pavements are recommended for use within the TPZ. Construction of the pavement sub-base should avoid grading cuts where possible.

#### 6.0 Foundation and Wall Construction

6.1. Foundation construction within the TPZ of retained trees is recommended to be either a pier and grade beam construction that bridges root areas, cantilevered structures, or raised foundations using pier footings.

6.2 Wall construction within a TPZ should be a design that requires minimal excavation within the TPZ. Walls requiring over-excavation for tieback structures should not be used within a TPZ.

#### 7.0 Site Drainage

7.1 All grading shall be designed to provide positive drainage away from the base of the tree trunk, and not create ponding within the TPZ.

7.2 Drainage features such as v-ditches and French drains will be utilized upslope from existing trees to divert runoff away from roots and the TPZ. These v-ditches are best utilized downslope of any irrigated landscape areas.

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 2205 Wharf Road/APN 783-72-042  
 March 11, 2016  
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## 8.0 Pruning and Cabling

8.1 Any tree pruning, cabling, or other similar activity that may be proposed as part of site construction will be included on site plans and be reviewed by a qualified arborist or City designated representative.

8.2 Pruning methods shall conform to the ANSI A 300-2001 Pruning Standard Practices and performed by an ISA Certified Arborist or Certified Tree Worker. Cabling or other support systems shall conform to the ANSI A 300 (part 3)-2000 Standard Practices.

## 9.0 Tree Damage Mitigation

9.1 Trees damaged during construction shall be evaluated by the Supervising Arborist or City designated representative. Proper mitigation measures shall be specified and may include:

- a.) Pruning of damaged and dead wood.
- b.) Installation of a drip irrigation system to provide supplemental irrigation for three to five seasons following damage.
- c.) Proper low nitrogen fertilization timed to growth response and phenological development of the tree.
- d.) Periodic risk assessment of tree.
- e.) Replacement of tree per City requirements.
- f.) Alleviation of severe compaction by vertical mulching with augers or hydraulic soil probes.
- g.) Alleviation of surface compaction by light cultivation or raking and the application of mulch.

## 10.0 Inspections

10.1 To ensure the successful implementation of the recommended procedures Site Inspections by the Project Arborist are recommended. Site inspections will take place at the following intervals throughout the course of the project:

- Following placement of grading stakes
- During preconstruction root exploration and root pruning
- After Tree Preservation fencing has been installed and prior to grading work
- As necessary during grading activities and construction
- If for any reason Tree Protection fencing needs to be temporarily relocated, the Project Arborist should be contacted.



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#### 11.0 Tree Health Care on Construction Projects

11.1 Project arborist to specify site-specific soil surface coverings (wood chip mulch or other) for prevention of soil compaction and loss of root aeration capacity.

11.2 Soil, water and drainage management is to follow the ISA BMP for "Managing Trees During Construction" and the ANSI Standard A300 (Part 2) - 2011 Soil Management (a. Modification, b. 'Fertilization, c. Drainage.)

11.3 Fertilizer / soil amendment product(s), amounts and method of application to be specified by Certified Arborist. Certain products may be recommended to provide optimum growing conditions, physiological invigoration, stamina, and recovery from construction impacts.

#### **PRUNING SPECIFICATIONS**

Tree #2, the giant sequoia will require pruning to attain building clearance and allow construction of the new home. Pruning should involve crown raising and crown reduction to achieve 5 feet clearance of all proposed structures. Only the minimum amount of canopy should be removed to produce these results.

Arial inspection and adjustment (if possible), of the existing cable work is recommended. Installation of new cable, utilizing 5/16 EHS grade, with ½ inch through rods should be considered. This cabling would be installed approximately 2/3 of the way up the trees canopy or approximately 40 feet above grade.

All pruning and cabling work shall be completed according to ANSI standards, as outlined above in sections 8.1 & 8.2, 'Pruning and Cabling.'

#### **TREE CANOPY COVERAGE EVALUATION**

Tree replacement for removed trees is a requirement of the City of Capitola Planning Department Municipal Code section 12.12.190. Replacement may or may not be required depending on the extent of tree canopy coverage for a given parcel. The tree canopy coverage for this property was evaluated using the County of Santa Cruz GISWEB aerial photo and property line overlay map. If the two trees recommended for removal are eliminated, the tree canopy coverage for this property appears to be slightly over 30%. The City of Capitola does not require tree replacement for removed trees if existing canopy coverage exceeds 30% on any given parcel. If it is determined by City of Capitola staff that the existing canopy coverage is less than 30%, the following trees are recommended to replace removed trees at the staff determined ratio.

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## RECOMMENDED REPLACEMENT TREES

Native trees, fifteen gallon size are recommended for this site.

### Trees

Botanical Name	Common Name	Mature Size HT.X WD.	Evergreen/Deciduous
Quercus agrifolia	Coast Live Oak	20-70'X 25-80'	Evergreen
Calocedrus decurrens	Incense Cedar	75' X 25'	Evergreen
Torreya californica	California Nutmeg	15-20'X12-15'	Evergreen
Acer circinatum	Vine Maple	10-15' X 10'	Deciduous

Respectfully submitted,

Kurt Fouts ISA Certified Arborist WE0681A



Attachment: Arborist report 2205 Wharf Road (1419 : 2205 Wharf Road)



Wright Project - 2205 Soquel Wharf Rd. APN 034-141-34  
Tree Assessment Chart - Appendix A

**Suitability for Preservation Ratings:**

**Good:** Trees in good health and structural condition with potential for longevity on the site

**Fair:** Trees in fair health and/or with structural defects that may be reduced with treatment procedures

**Poor:** Trees in poor health and/or with poor structure that cannot be effectively abated with treatment


**Retention or Removal Code:**

**RT:** Retain Tree

**RI:** Remove Due to Construction Impacts


**IM:** Impacts Can Be Mitigated With Pre-Construction Treatments

**RC:** Removal Due to Condition

Tree #	Species	Trunk Diameter @ 4.5'	# of Trunks	Crown Height & Diameter	Health Rating	Structural Rating	Suitability for Preservation (Based Upon Condition)	Tree Protection Zone (in feet)	Construction Impacts (Rating & Description)	Retention or Removal Code	Comments
1	incense cedar ( <i>Calocedrus decurrens</i> )	22"	1	50'X25'	Fair	Fair	Good	15'	Low/Compaction and root loss.	RT	Co-dominant stems beginning at 9' above grade. Tear out, loss of limb at 12' above grade. Optimal rooting area limited by existing asphalt driveway and neighbors concrete driveway. Result is below average vigor for species.
2	giant sequoia ( <i>Sequoiadendron giganteum</i> )	32",52"	2	60'X35'	Good	Fair	Good	22"	Moderate to High/Compaction, root loss, canopy loss.	RT/IM	Codominant stems beginning at 9' above grade. Total of 3 primary stems. 3 to 5 degree lean to west, all 3 stems. Unbalanced canopy with 2/3 growth on west side. Two cables installed between 3 primary stems at 26' above grade. Tree topped at 50' above grade. Remove ivy growing on trunk and out to drip line.
 826 Monterey Avenue Capitola, CA 95010 831-359-3607 scharbergrounds@yahoo.com							Page 1 of 3				3/1/2016

Wright Project - 2205 Soquel Wharf Rd. APN 034-141-34


## Tree Assessment Chart - Appendix A

Tree #	Species	Trunk Diameter @ 4.5'	# of Trunks	Crown Height & Diameter	Health Rating	Structural Rating	Suitability for Preservation (Based Upon Condition)	Tree Protection Zone (in feet)	Construction Impacts (Rating & Description)	Retention or Removal Code	Comments
3	deodar cedar (Cedrus deodara)	31"	2	65'X45'	Good	Good	Good	24'	High/ In entryway foot print and within 5 feet of proposed foundation.	RI	Excellent specimen. Well spaced scaffolds with good attachments. High quality pruning maintenance.
4	coast live oak (Quercus agrifolia)	12", 11"	2	35'X40'	Good	Fair	Good	18'	Moderate/ Compaction and root loss	RT, IM	Canker with minor bleeding in trunk at 4' above grade. Folage color is good.
5	apple	4", 4"	2	25'X17'	Good	Fair	Fair	8'	High/ Within three feet of proposed sound wall.	RI	Asymmetrical canopy due to suppression from cedar tree.
6	coast live oak (Quercus agrifolia)	14", 16", 24", 12", 24"	5	35'X35'	Fair	Fair	Good	27'	None/ 75' from proposed home foundation.	RT	Five stump sprouts from old failed tree. Tree was topped to clear high voltage lines. Existing concrete pad for additional parking, buffers roots, if pad is used for staging.
 Kurt Fouts Arborist Consultant 826 Monterey Avenue Capitola, CA 95010 831-359-3607 scharborgrounds@yahoo.com							Page 2 of 3				3/1/2016

Attachment: Arborist report 2205 Wharf Road (1419 : 2205 Wharf Road)

Wright Project - 2205 Soquel Wharf Rd. APN 034-141-34

Tree Assessment Chart - Appendix A

Tree #	Species	Trunk Diameter @ 4.5'	# of Trunks	Crown Height & Diameter	Health Rating	Structural Rating	Suitability for Preservation (Based Upon Condition)	Tree Protection Zone (in feet)	Construction Impacts (Rating & Description)	Retention or Removal Code	Comments
7	fan palm ( <i>Washingtonia sp.</i> )	16"	1	25'X8'	Good	Fair	Good	8'	Low/ Protect trunk from exposure to construction equipment.	RT	Trunk has strong bow, self corrects to vertical. Prune adjacent oak for crown clearance. Remove dead fronds.
8	loquat ( <i>Eriobotrya deflexa</i> )	5",4",4"	3	20'X18'	Fair	Good	Good	10'	Low/ Protect trunk from exposure to construction equipment.	RT	Suppressed growth due to adjacent oak. Canopy density is thin.
 826 Monterey Avenue Capitola, CA 95010 831-359-3607 scharbergrounds@yahoo.com							Page 3 of 3			3/1/2016	

Attachment: Arborist report 2205 Wharf Road (1419 : 2205 Wharf Road)

Site and Tree Images:



Tree #1 – incense cedar, below average vigor due to limited rooting area





Tree #2 – giant sequoia, co –dominant trunks





Tree #3 - deodar cedar



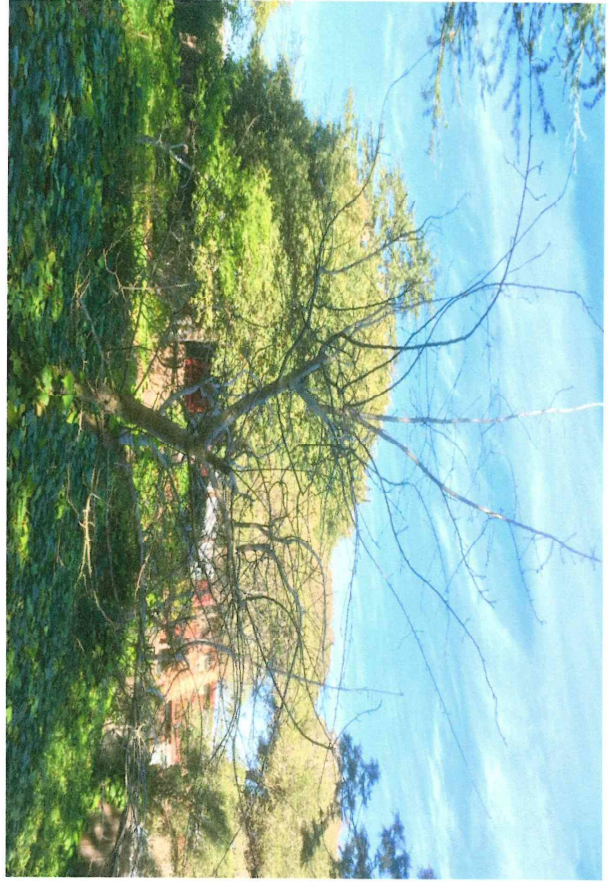
Tree #4 – coast live oak, co – dominant trunks, good canopy density



Tree #6 – coast live oak, new growth flush (light green color), needs ivy removed from trunks



Tree #5 - apple





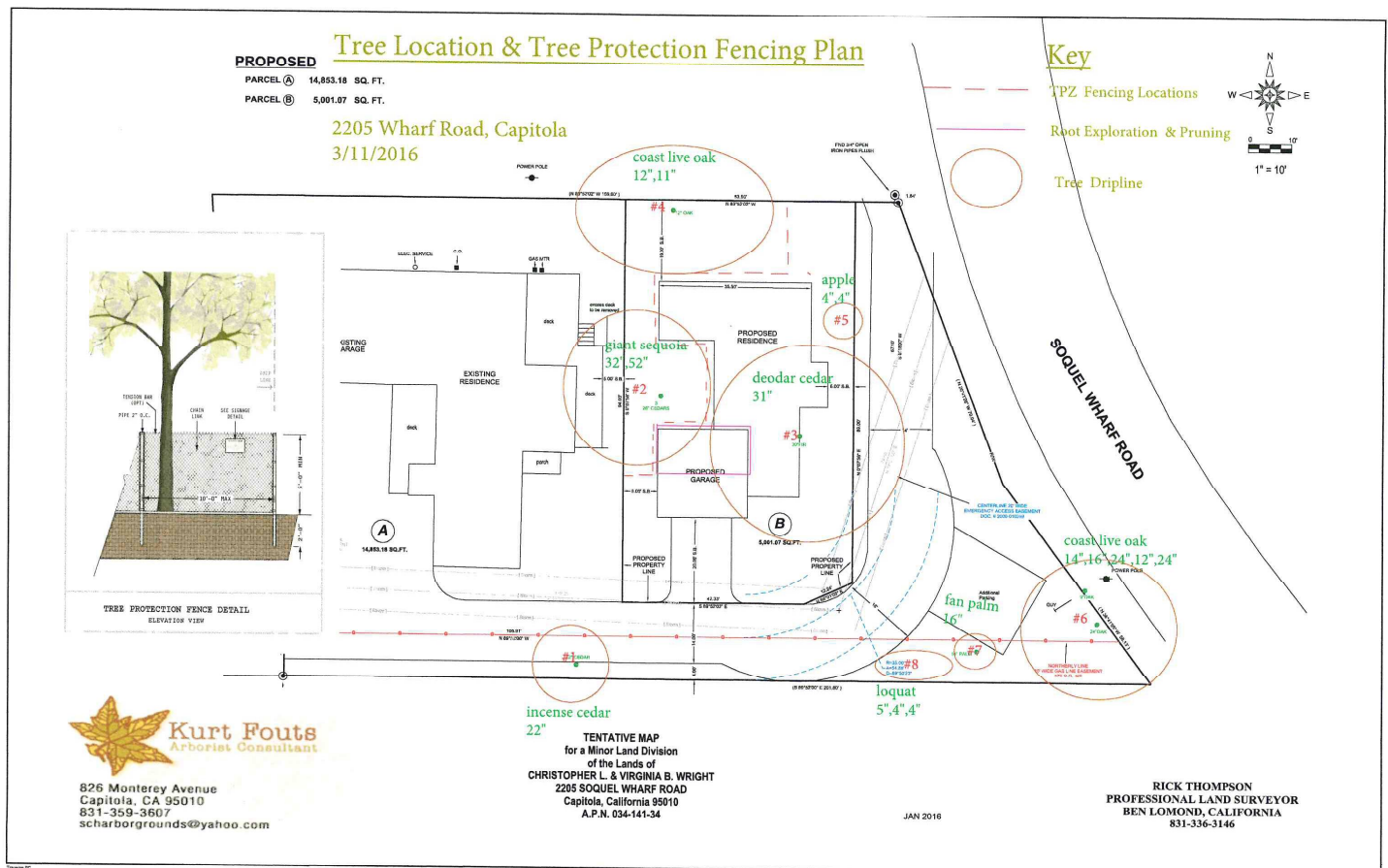


Tree #7 – fan palm, note curved trunk, needs skirting of dead palm fronds





Tree #8 – loquat, nice shaped small tree, good siting for this species



# Warning

## Tree Protection Zone

# Keep Out

**NOTICE: PROTECTIVE FENCING IS REQUIRED ON THIS JOB SITE.  
REMOVAL OR DAMAGE OF THIS FENCING MAY RESULT IN A FINE**

This sign must be prominently displayed. Fencing may not be moved or removed without permission of the Project Arborist.

During demolition and construction, all reasonable steps necessary to prevent damage, or the destruction of protected trees is required. Failure to comply with all precautions may result in a STOP WORK order being issue by the regulating agency.

No Entry without Project Arborist Authorization  
Kurt Fouts –Arborist Consultant- 831 – 359 -3607



#### ASSUMPTIONS AND LIMITING CONDITIONS

1. Any legal description provided by the appraiser/consultant is assumed to be correct. No responsibility is assumed for matters legal in character nor is any opinion rendered as the quality of any title.
2. The appraiser/consultant can neither guarantee nor be responsible for accuracy of information provided by others.
3. The appraiser/consultant shall not be required to give testimony or to attend court by reason of this appraisal unless subsequent written arrangements are made, including payment of an additional fee for services.
4. Loss or removal of any part of this report invalidates the entire appraisal/evaluation.
5. Possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person(s) to whom it is addressed without written consent of this appraiser/consultant.
6. This report and the values expressed herein represent the opinion of the appraiser/consultant, and the appraiser/consultant's fee is in no way contingent upon the reporting of a specified value nor upon any finding to be reported.
7. Sketches. Diagrams. Graphs. Photos. Etc., in this report, being intended as visual aids, are not necessarily to scale and should not be construed as engineering reports or surveys.
8. This report has been made in conformity with acceptable appraisal/evaluation/diagnostic reporting techniques and procedures, as recommended by the International Society of Arboriculture.
9. When applying any pesticide, fungicide, or herbicide, always follow label instructions.
10. No tree described in this report was climbed, unless otherwise stated. We cannot take responsibility for any defects which could only have been discovered by climbing. A full root collar inspection, consisting of excavating around the tree to uncover the root collar and major buttress roots, was not performed, unless otherwise stated. We cannot take responsibility for any root defects which could only have been discovered by such an inspection.

#### CONSULTING ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education. Knowledge, training, and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like medicine, cannot be guaranteed.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.